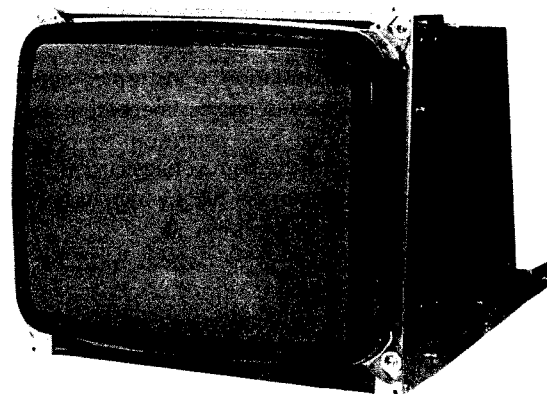


Service Manual

Color CRT Data Display

MODEL TX-1404FH

Chassis No. X06



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1. SAFETY PRECAUTIONS

1-1 CAUTION:

No modification of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety checks and servicing guide lines.

1-2 SAFETY CHECK

Care should be taken while servicing this CRT display because of the high voltage used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

1-3 FIRE & SHOCK HAZARD

- 1-3-1 Insert an isolation transformer between the CRT display and AC power line before servicing chassis.
- 1-3-2 In servicing pay attention to original lead dress especially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result the short circuit.
- 1-3-3 All the protective devices must be reinstalled per original design.
- 1-3-4 Soldering must be inspected possible for cold solder joints, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign material.

1-4 IMPLOSION PROTECTION

All Panasonic picture tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage and scratching during installation. Use only Panasonic replacement picture tubes.

1-5 X-RADIATION

WARNING: The only potential source of X-Radiation is the picture tube. However when the high voltage circuitry is operating properly there is no possibility of X-Radiation problem. The basic precaution which must be exercised is to keep the high voltage at the following factory-recommended level.

Note: It is important to use an accurate periodically calibrated high voltage meter.

- 1-5-1 To measure the high voltage, use a high impedance high voltage meter. Connect(—) to chassis and (+) to the CRT anode button.
- 1-5-2 Turn the Brightness control fully counterclockwise.
- 1-5-3 Measure the high Voltage. The high voltage meter should indicate at the following factory-recommended level.
- 1-5-4 If the upper meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- 1-5-5 To prevent X-Radiation possibility, it is essential to use the specified picture tube.
- 1-5-6 The nominal high voltage is 24.5KV and must not exceed 25KV at zero beam current at rated voltage.

IMPORTANT SAFETY NOTICE

There are special components used in Panasonic CRT displays which are important for safety. These parts are shaded on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacture's specified parts to prevent X-RADIATION, shock, fire or other hazards. Do not modify the original design without written permission of the Panasonic company or this will void the original parts and labor guarantee.

GENERAL INFORMATION

Here is an outline of Model TX-1404FH.

This model is COLOR CRT DATA DISPLAY of metal frame type.

TX-1404FH uses High Resolution (Dot pitch 0.31mm) color Cathode Ray Tube.

Input signal is separate type and each input signal is put through 20 pin Connector on the P.C. Board.

Input signal is for TTL level, and H. drive pulse is capable of corresponding to 11.29 μ S.

In order to meet users' requirements, frame mechanism is employed for easy adjustment of CRT setting angle.

Angle can be changed by stages such as 0°, 2.5°, 7.5° and 10° Switching regulator Circuit is Applied to for power supply of this model. and it is available for AC input 90~140V / 180~264V by changing the select switch (115V / 220V) which built-in the Switching Regulator.

COLOR DISPLAY SPECIFICATIONS

1. MECHANICAL DESCRIPTION

Dimension:
 Height: 11.30" (287mm) max.
 Width: 13.62" (346mm) max.
 Depth: 14.57" (370mm) max.
 Weight: 26.4 lbs(12kg)
 Picture Tube: 370KAB22TC01
 Size 14"
 Gun In-Line
 Def, Angle 90°
 Neck dia 1.146" (29.1mm)
 Phosphor R. G. B
 Tilt: 10°

2. ENVIRONMENT

Ambient temp, Humidity and Altitude:

Operating:

Temp: 32°F~122°F (0°~50°C)
 Humidity: 5~90%
 Altitude: 10,000 FT max. (3,000m)

Non-operating:

Temp: -40°F~149°F (-40~65°C)
 Humidity: 5~90%
 Altitude: 40,000 FT max. (12,000m)

Storage and Shipment:

Temp: -40°F~149°F (-40~65°C)
 Humidity: 5~90%
 Altitude: 40,000 FT max. (12,000m)

Vibration and Shock: (Packaged condition)

Vibration:

meet the following:

Frequency: 5~55 Hz
 Vertical: 1.25 G
 Horizontal: 0.75 G

Shock:

Coner and edge: Height 15.8" (40cm)
 Front, Back, Side, Bottom: Height 19.7" (50cm)

3. ELECTRIC PERFORMANCE

Power supply:

Input Voltage: AC90~140 / 180~264V
 Input Frequency: 50 / 60Hz
 Input Current: 1.3 A max.
 Power: 70W max.
 Inrush Current: 45 A op max. (at 100V AC)

Input Signals:

Horizontal Sync:

Polarity: Negative
 Signal Level: 4Vpp ± 1V
 Input Imp: ≧1.5K ohmS

Vertical Sync:

Polarity: Negative
 Signal Level: 4Vpp ± 1V
 Input Imp: ≧1.5K ohmS

Video Signal (R.G.B)

Polarity: Positive
 Signal Level: 4Vpp (See Note 1)
 Tr. Tf: ≧5nS

Note 1. Max rise and fall times (from 10% to 90%)
 of input signals are less than 5 NS.

Image test Condition:

Charactor: "H"
 Color: Green
 Brightness: Max.(without Back Raster)
 View Direction: Parallel to the CRT axis
 Ambient Temperature: Room Temp
 Supply Voltage: AC 115V

Note 2. To measure more then 20 minutes after power on.

Note 3. Normal Condition is the Condition that Satisfies
 Image test Condition. (Condition of following each
 items is normal condition, it not mentioned).

Video Out:

Turn Rise Time (Tr): Less then 20nS
 Turn Fall Time (Tf): Less then 30nS
 (To measure by 10MHz square-wave Duty 50%).

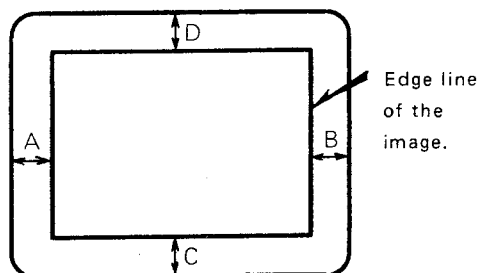
Image:

Charactet Area:

Horizontal: 9.45 ± 0.2" (240 ± 5mm)
 Vertical: 7.09 ± 0.2" (180 ± 5mm)

IMAGE POSITION:

To be able to adjust at the center of the CRT.
Image is within the area in Fig.



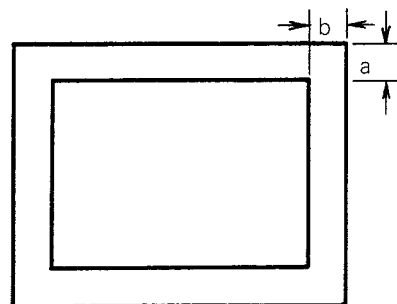
$$A-B \leq 0.236'' (6\text{mm})$$

$$C-D \leq 0.236'' (6\text{mm})$$

Normal Condition

(B) RECTANGULARENESS & PARALLELOGRAM DISTORTION

Edge of the image is within the area indicated by the dotted line in Fig.



$$a \dots 0.157'' (4\text{mm})$$

$$b \dots 0.157'' (4\text{mm})$$

Input signal.....Cross-hatch

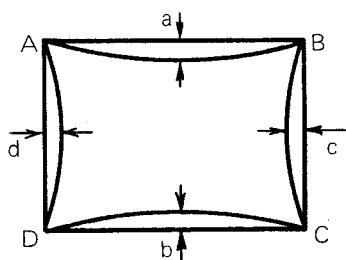
DISTORTION:
(A) PINCUSHION

Upper: (a): Less than 0.098'' (2.5mm)

Lower: (b): Less than 0.098'' (2.5mm)

Right and Left (c), (d):

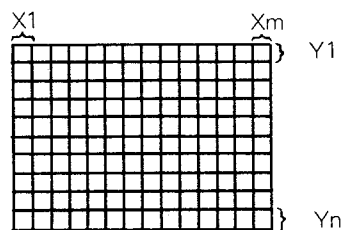
Less than 0.098'' (2.5mm)



Input signal.....Cross-hatch

(C) LINEARITY

Horizontal and vertical linearity shall be less than 7%
see Fig.



Horizontal linearity

$$\frac{X_{\max} - X_{\min}}{X_{\max} + X_{\min}} \times 100(\%) \leq 7\%$$

Vertical linearity

$$\frac{Y_{\max} - Y_{\min}}{Y_{\max} + Y_{\min}} \times 100(\%) \leq 7\%$$

Note: Maximum and minimum value should not be adjacent to each other.

X max is maximum value among X1~Xm.

X min is minimum value among X1~Xm.

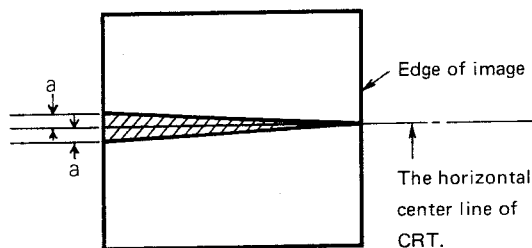
Y max is maximum value among Y1~Yn.

Y min is minimum value among Y1~Yn.

Input signal.....Cross hat, Green.

(D) ROTATION

Horizontal center line of the image shall be within the shaded area in Fig.

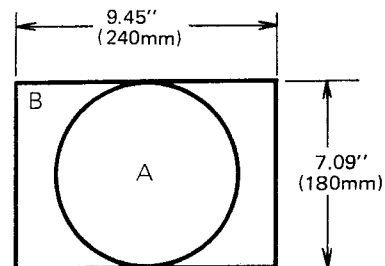


a.....0.098" (2.5mm)

Input signal.....Cross-hatch, Green.

Note: Should be measured under the following terrestrial magnetic field.

- 1). Without horizontal magnetic field.
- 2). With vertical magnetic field.

OVERALL PERFORMANCE:
MIS-CONVERGENCE


Center of the display area
(A) $\leq 0.0236"$ (0.6mm)

Peripheral display area
(B) $\leq 0.0315"$ (0.8mm)

Note: Should be measured under the following conditions.

- *With out horizontal magnetic field.(terrestrial).
- *with vertical magnetic field.
- *At room temperature.
- *Input signal : Cross-hatch, R.G.B. mixed color.

IMAGE SIZE VARIATION:

	Image size variation from the normal image size.	Range of Variation
By Brightness	Within 0.157" (4mm) (Horizontal and Vertical)	Max. to Min.
By Power Supply Voltage	Within $\pm 0.118"$ (3mm) (Horizontal and Vertical)	AC 90~140V AC 180~264V
By temperature	Within $\pm 0.157"$ (4mm) (Horizontal and Vertical)	25 \pm 25° C

Normal condition, if not mentioned.

HORIZONTAL RESOLUTION:

Horizontal 800pixels
Vertical 690pixels

RESISTER BETWEEN FG AND SG:

15Kohms $\pm 10\%$

INSULATION:

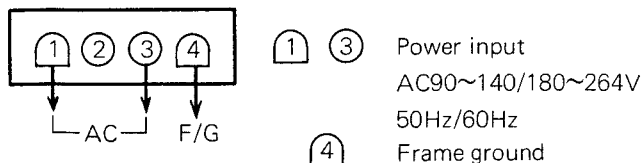
More than 100Mohms
(Between AC line and Chassis)

JITTER:

Less than 1 dot.
(Invisible at a distance of 17.7" (45cm) from CRT surface.)

CONNECTOR AND WIRING

POWER SUPPLY:



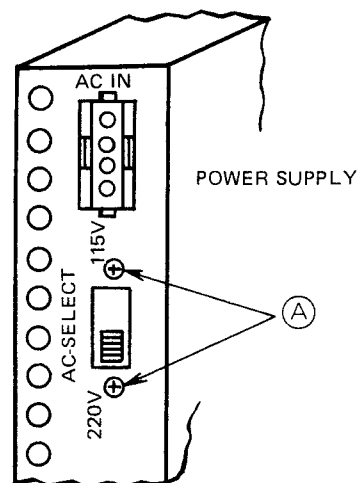
When factory shipping, the power select Switch of the monitor power supply is set at 220V Side (AC input 180~264V).

There fore when use this unit in the 90~140V area, loose the 2(two) screws (A) as shown fignr before power on then change the switch at 115V Side.

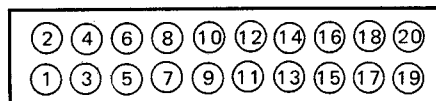
CONNECTOR TYPE:

MFR.....AMP Lock Connector

Display Side	Customer Side
4-Cap-housing (350780-1)	Connector (350779-1)
Pin Contact (350561-1)	Contact (350570-1)



SIGNAL INPUT:



Pin No.	Name	Pin No.	Name
1	Vertical Sync(V.S)	2	V.RTN (SG)
3		4	
5	Horizontal Sync(H.S)	6	H.RTN (SG)
7	Sound (Option)	8	SG
9		10	SG
11		12	SG
13		14	SG
15	Video (R)	16	R.RTN (SG)
17	Video (G)	18	G.RTN (SG)
19	Video (B)	20	B.RTN (SG)

CONNECTOR TYPE:

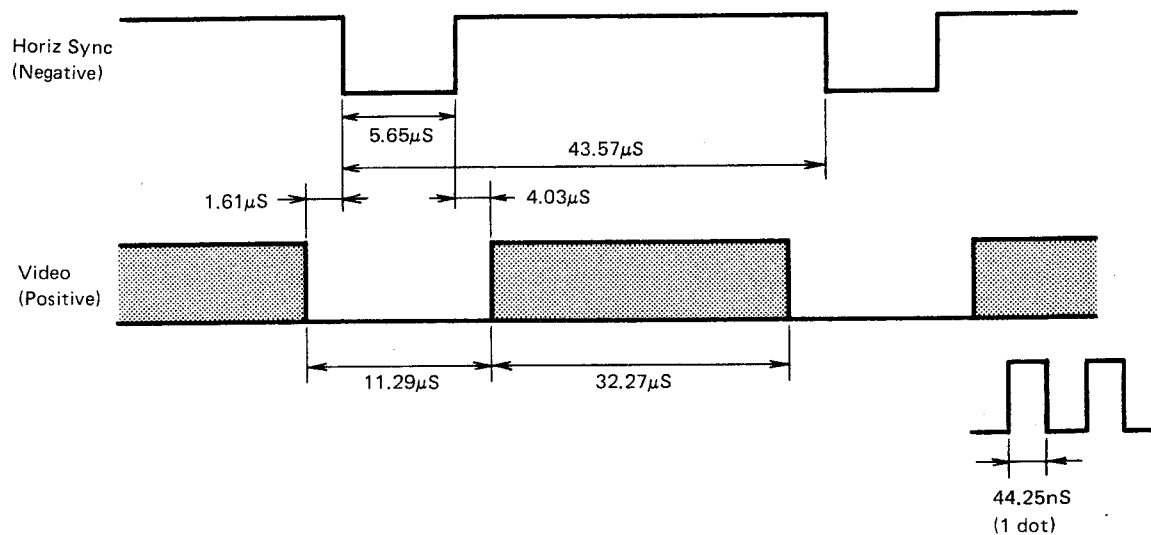
Display Side
MFR...Hirose Electric Co.,Ltd.
20P Connector
(HIF3-20P-254DS)

Custmer Side
MFR...Hirose Electric Co.,Ltd.
20P Connector
(HIF3N-20P-254R)

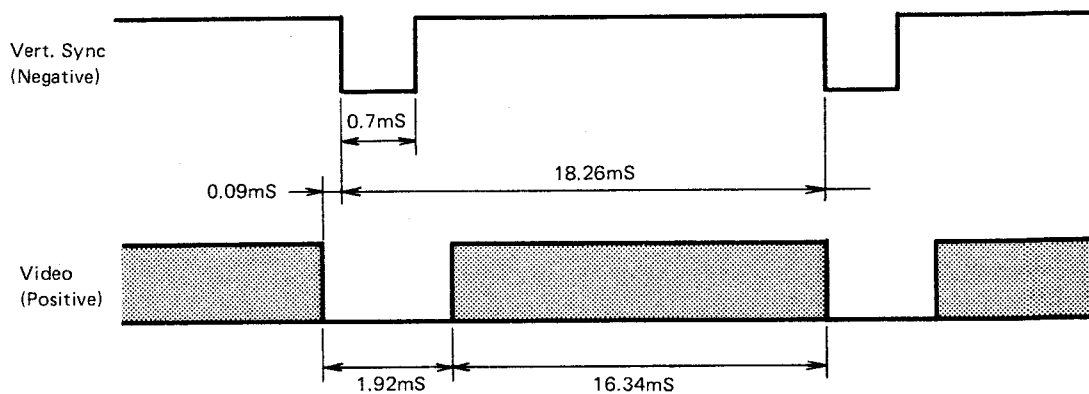
Note: The connectors of customer side are for your reference.

TIMING CHART

HORIZONTAL SYNC:



VERTICAL SYNC:



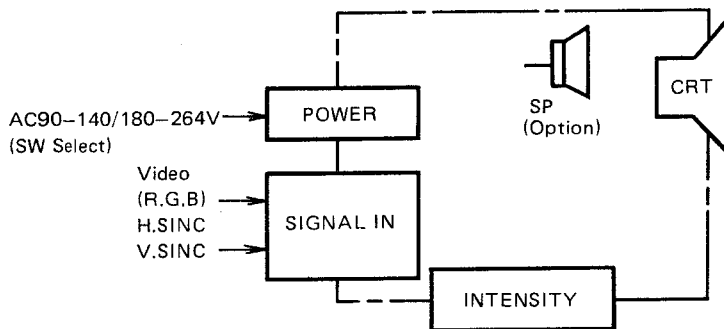
Note: Signal input level: TTL level

Time Tolerance: $\pm 0.1\%$

Unit is adjusted according to this timing and frequency.

CONSTRUCTION AND BLOCK DIAGRAM

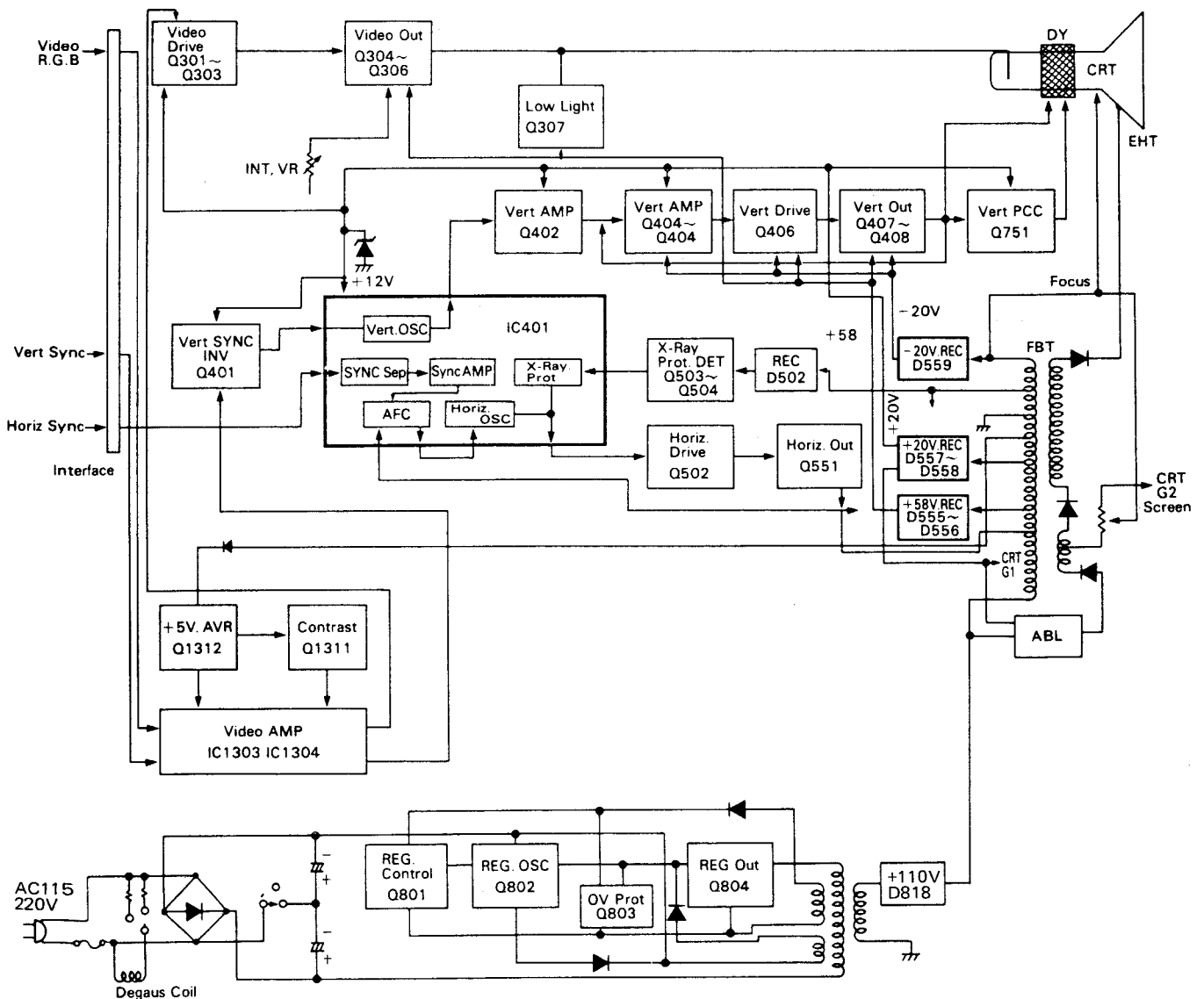
CONSTRUCTION OUTLINE



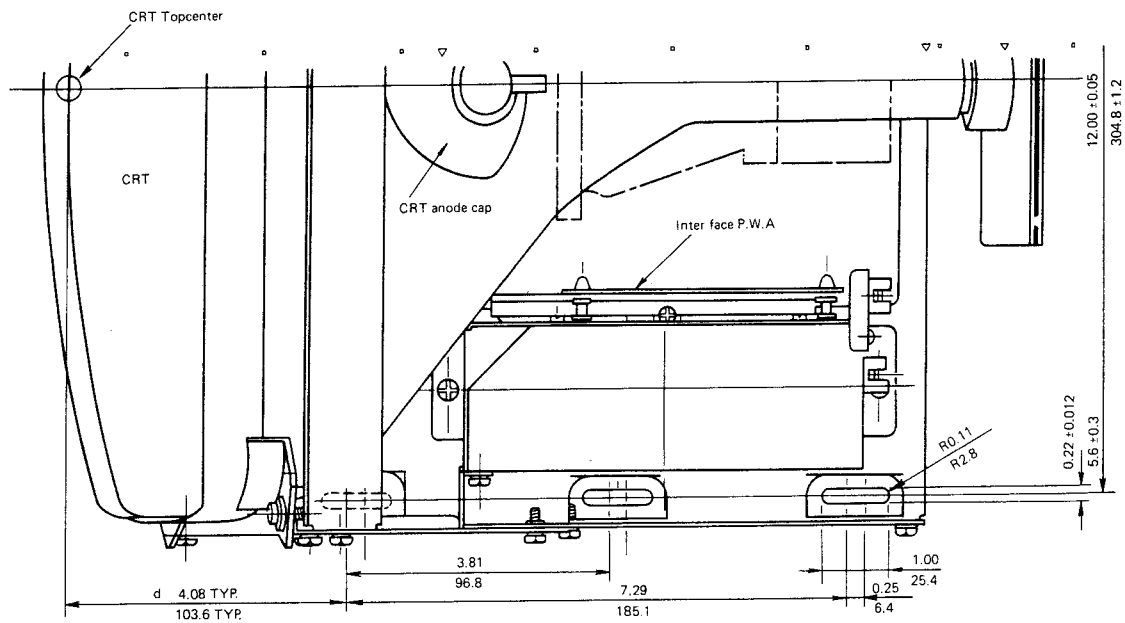
Note 1: CRT's Conducting Film is Connected to SG.
(Signal Ground)

Note 2: SG and FG (Frame Ground) are separated by 15Kohm resistor.

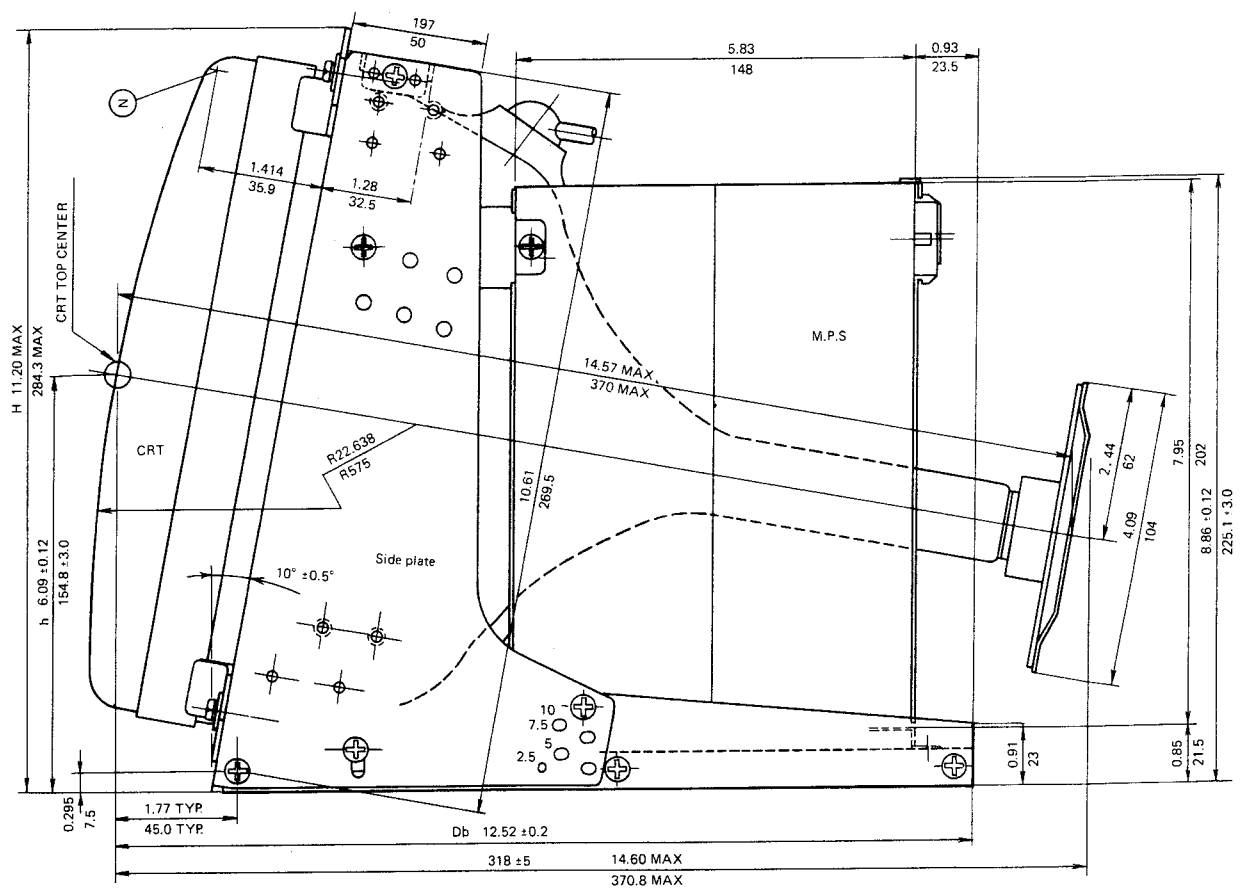
BLOCK DIAGRAM



- DIMENSION -

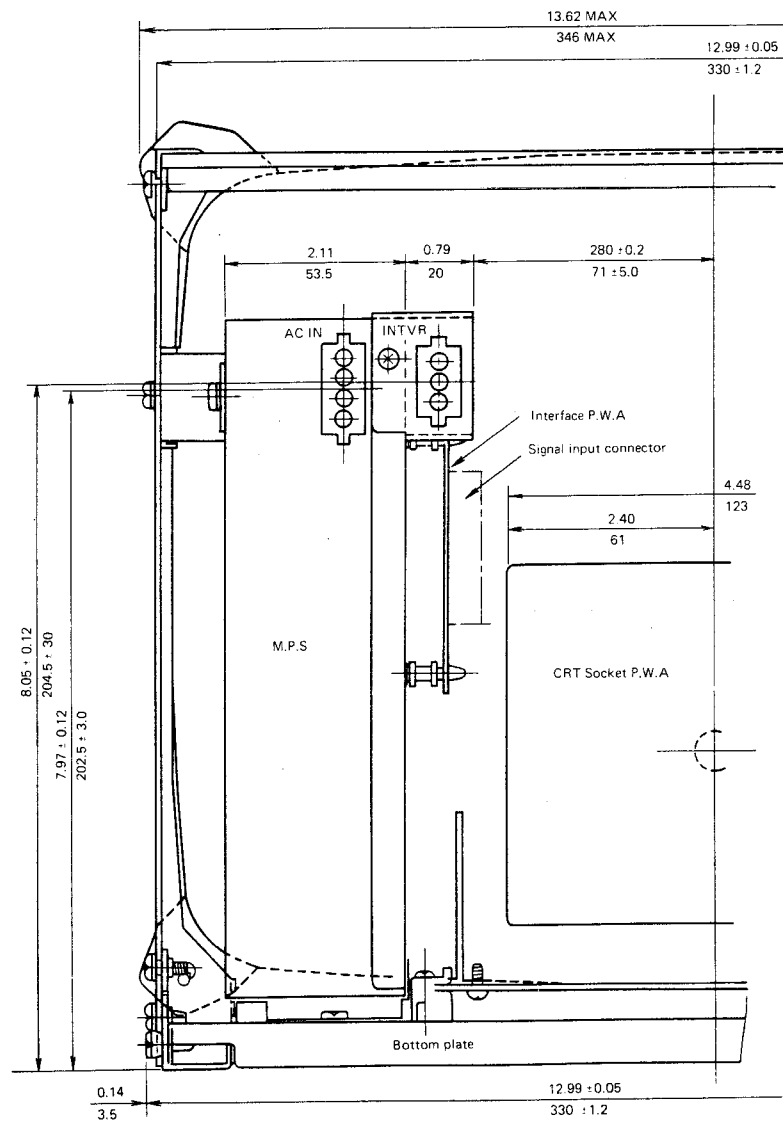
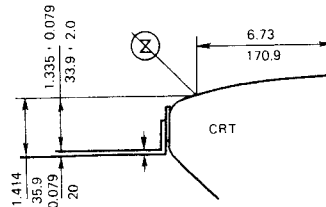


Dimension:
Upper Side: inch
Bottom Side: mm

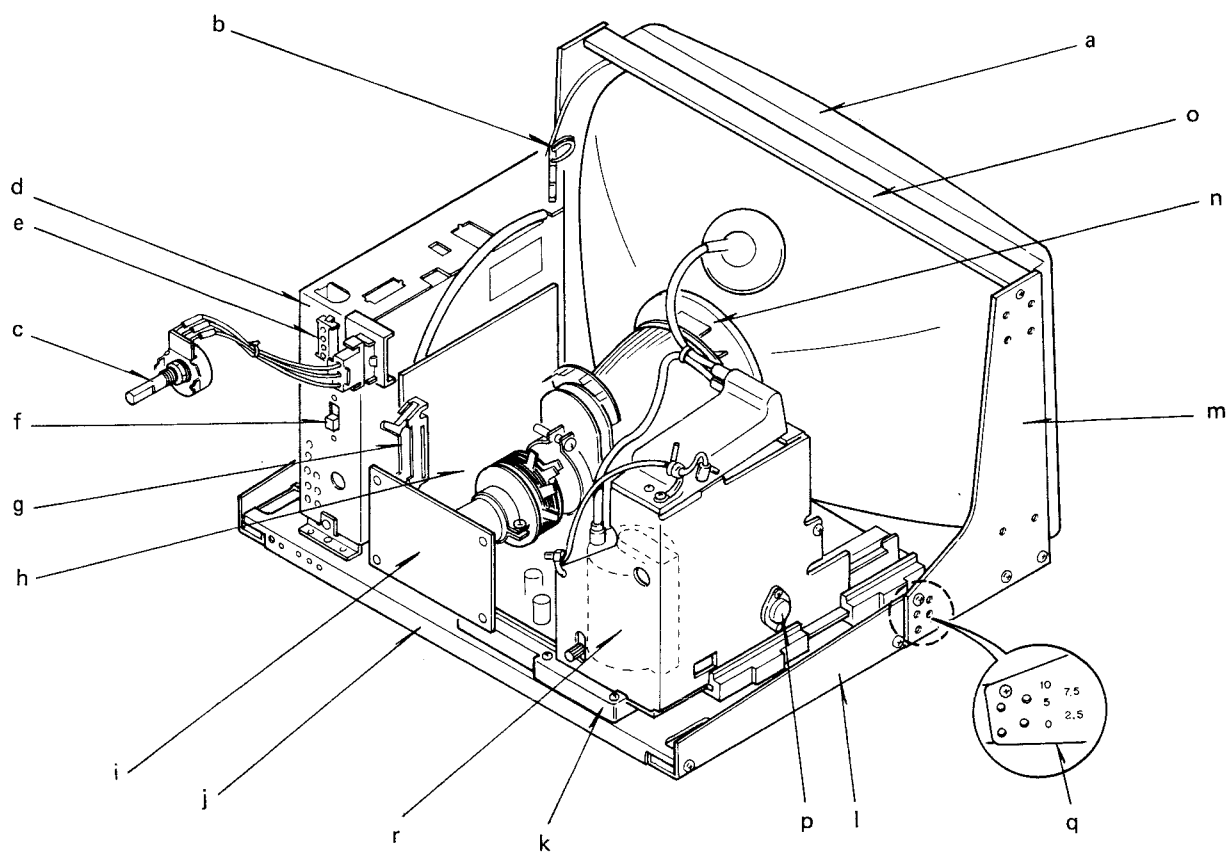


TX-1404FH

CRT TILT	H MAX (inch) (mm)		h $\pm \begin{smallmatrix} 0.12 \\ 30 \end{smallmatrix}$		d TYP.		Db $\pm \begin{smallmatrix} 0.2 \\ 5.0 \end{smallmatrix}$			
0°	11.30	287.0	5.70	144.8	5.06	128.5	13.50	342.9		
2.5°	11.30	286.9	5.81	147.7	4.82	122.4	13.26	336.8		
5°	11.29	286.7	5.92	150.4	4.58	116.3	13.02	330.7		
7.5°	11.25	285.7	6.01	152.7	4.33	110.0	12.77	324.4		
10°	11.20	284.3	6.09	154.8	4.08	103.6	12.52	318.0		



COMPONENT LOCATION

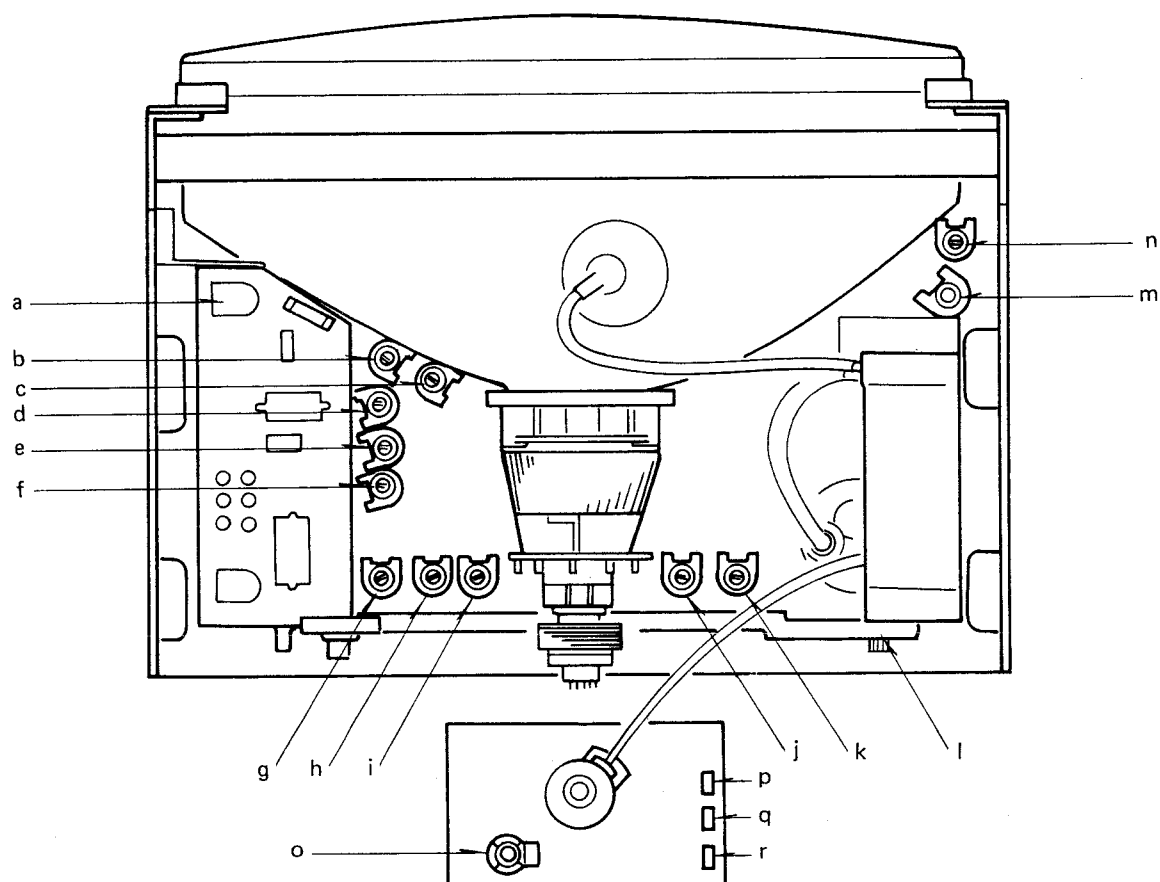


a.....CRT
 b.....Degaus Coil Connector
 c.....Intensity VR
 d.....Power Supply
 e.....Power input Connector
 f.....Power Select Switch
 g.....Signal Input Connector

h.....Interface Board
 i.....CRT Socket Board
 j.....Bottom Plate
 k.....P.W.A Holder
 l.....Mounting Metal
 m.....Side Plate
 (Right and Left)

n.....Deflection Yoke
 o.....TOP, Angel
 p.....H. OUT. TR (Q551)
 q.....CRT Tilt Chang Posi
 r.....FBT

CONTROL DESCRIPTION



a.....B-ADJ (VR81)
 b.....V.PCC (R754)
 c.....V.Lin (R424)
 d.....R.GAIN (R301)
 e.....G.GAIN (R311)
 f.....B.GAIN (R321)
 g.....V.POSI (R420)

h.....V.SIZE (R426)
 i..... V.HOLD (R407)
 j.....H.HOLD (R516)
 k.....H.PHASE(R540)
 l..... FOCUS
 m... H.WIDTH (L555)
 n.....SUB BRIGHT (R554)

o.....SCREEN (R372)
 p.....LOWLIGHT R (R338)
 q..... LOWLIGHT B (R358)
 r.....LOWLIGHT G (R348)

CAUTION TO ADJUSTMENT AND REPAIR

1. Degaussing is inevitably required at purity adjustment or convergence adjustment.
2. At the factory, white balance meter is used but we described the data in simple way.
3. If you check or adjust electrical specification or function, more than 20 minutes burn-in is required.
4. Reforming of the leadwire is required after your repair work.

CAUTION FOR SERVICING

In case of servicing or replacing CRT, high Voltage sometimes remains in the anode of CRT, So, completely discharge high voltage before servicing or replacing CRT so as to prevent a shock to the serviceman.

In this case, discharge to the external conductive coating (aquadac) of CRT.

Factory set the switch at 220V side of monitor power supply.

When you need switchover, off is required before it. As this model is the Frame type, any pressure on the CRT neck shall be avoided.

ADJUSTMENT PROCEDURE

1. Voltage adjustment

(1) +B (110V) Voltage adjustment

Adjust the VR81 (+B-ADJ) so as that the voltage at TP1 (test point of TNP82840) shall be 110V.

(2) Confirming the +B2, -B3, +B4.

2-1 +B2 (+58V)

Confirm the voltage at TP3 (test point of A-P, W, B) is $+58 \pm 2V$.

2-2 -B3 (-20V)

Confirm the voltage at TP4 (test point of A-P, W, B) is $-20 \pm 2V$.

2-3 +B4 (+20V)

Confirm the voltage at TP5 (test point of A-P, W, B) is $+20V \pm 2V$.

2-4 +B5 (+8.5V)

Confirm the voltage at TP6 (test point of F-P, W, B) is $+8.5 \pm 0.5V$.

(3) Confirm the Heater voltage

Measure and confirm the voltage at the seventh pin of CRT socket is $6.0 \pm 0.2V_{rms}$.

Measuring should be done later more than five minutes after power on.

2. CRT Screen adjustment (Adjustment of CRT cut off)

- 1) Adjust the R,G,B switch of signal generator so as that the CRT screen shows no signal.
- 2) Turn the sub-brightness VR (R554) to the MIN.
- 3) Turn the screen VR (R372) to the MIN.
- 4) Turn all the low light VRs clockwise from the solder view.
- 5) Insert the service switch of SC401 into "S" side.
- 6) Turn R554 (sub-brightness VR) so as that the voltage of G1 is $-17V$.
Use the probe of 100:1 ratio.
- 7) Turn the screen VR and find what is the color which is light emitted at the last moment.
- 8) Turn the low light VRs of each color except that of your finding at item 7 toward darkness to the MAX.
- 9) Turn the screen VR and set it where the color you found at item 7 can be seen slightly.
- 10) Turn the low light VRs of other two colors and set them where these two colors can be seen at the same degree as you adjusted the color at item 9.
- 11) Insert the service switch of SC401 into "N" side.
- 12) Adjust R554 (Sub-brightness control volume on

Main P.W.A) and set at the point where raster is off.

- 13) Viewing the oscilloscope, turn the R554 anti-clockwise until the voltage lowers 5V further (CRT 8 pin G1 voltage shows $-22V$.)

3. White Balance adjustment

- 1) Set the video gain volume (R.G.B) at the center.
- 2) Input the white signal of "H".
- 3) Adjust the video gain volumes (R: R301, G: R311, B: R321) so as that CRT shows white color.
- 4) After adjusting the white balance, rotate the brightness volume from MAX to MIN and make sure that the white balance is not changed.
If something is wrong, please adjust the low light volume.

4. Purity adjustment

In case of ITC, this specification is applied only when the problem is found in the execution of "final confirmation method for purity"

- 1) Make sure that this adjustment should be done later more than 30 minutes after power on.
- 2) In the no magnetic field, erase the magnetism of chassis and CRT with degaussing coil.
- 3) Confirm that static convergence is roughly matched.
- 4) Display Red color solely with the signal generator.
- 5) Move the D.Y. to rear and adjust the purity magnet so as that the fireball is showed at the center of the screen.
- 6) After the adjustment of item 5, re-adjust the static convergence if some gap was found.
- 7) After the item 6, repeat the item 5 again.
- 8) Display the fireball of G and B. Adjust the purity magnets so as that each fire ball is at the center of the screen simultaneously.
- 9) Display the red color solely again and move the D.Y. in order to display the red color on the whole screen.
- 10) Confirm the "no magnetic field", "magnetic field" and "reverse magnetic field" to R.G.B respectively.
- 11) If there remains magnetism even after the adjustment, put the compensation magnet for purity to make countermeasure.

The final confirmation method for purity

In the natural magnetic field, rotate the set in the direction of East, West, South and North. Field magnetic may causes magnetism on the set. Confirm that the automatic degaussing circuit built in the set can erase the amount of magnetism which was magnetized with above rotation.

5. Convergence adjustment

- 1) Input the mixed dot pattern of R and B with the signal generator.
- 2) Match the R and B at screen center with four pole magnet. (Rotate the two ring magnets and R, B move circularly with the other direction respectively.)
- 3) Input the mixed dot pattern of R.G.B with the signal generator.
- 4) At the screen center, match R and B to G with the six-pole magnet.
- 5) Make the fine tuning of D.Y. location so as to get good convergence on the whole-screen.
- 6) If the convergence on the fringe area is bad, put "the magnetic small pieces" at the four corners of D.Y. and fix them the convergence becomes better.

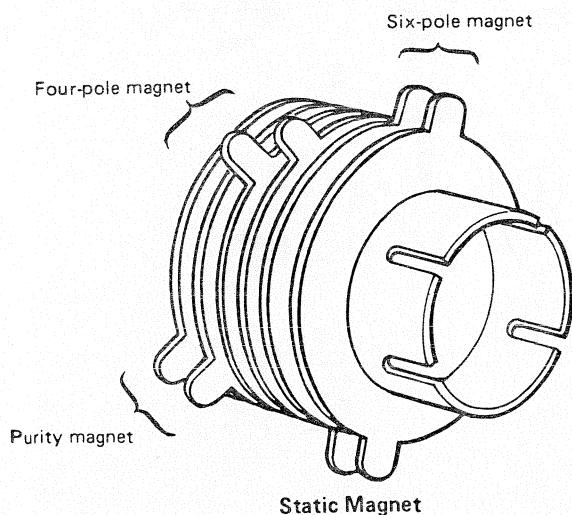
Note: Caution for putting "the magnetic small pieces".

- (1) Take more than 20mm distance from anode cap.
- (2) Don't put them duplicately.
- (3) Don't put it on some other labels.

- 7) After the convergence adjustment, confirm if purity is OK.

In case purity is no good, back to [4] purity adjustment and re-adjust the purity.

- 8) Repeat the above procedure in several times and get the best purity and convergence.



6. H. Hold Adjustment

Adjust R516 (H. Hold) so as that the character area locates at the raster center (Horizontally).

7. V. Hold Adjustment

Turn the R407 (V. Hold) toward lower vertical frequency so as that the picture becomes out of synchronous.

Turn the R407 (V. Hold) toward the opposite direction to the before until the picture becomes synchronized.

8. V. LIN Adjustment

- 1) Display cross-hatch with the character generator.
- 2) Adjust R426 (V. Size) for the vertical size to be $180 \pm 2\text{mm}$.
Adjust R420 (V. Posi) for cross-hatch to locate at CRT center.
- 3) Adjust R424 (V. Lin) for the V. LIN to be the best.

9. V. size Adjustment

Adjust R426 (V. size) for the vertical size to be $180 \pm 2\text{mm}$.

10. V. POSI Adjustment

Adjust R420 (V. posi) for the character area to locate at the CRT center.

11. H. Width Adjustment

Adjust L555 (H. Width) for H. WIDTH to become $240 \pm 2\text{mm}$.

Note: Inserting the L555's core into bobbin is the direction of the adjustment.

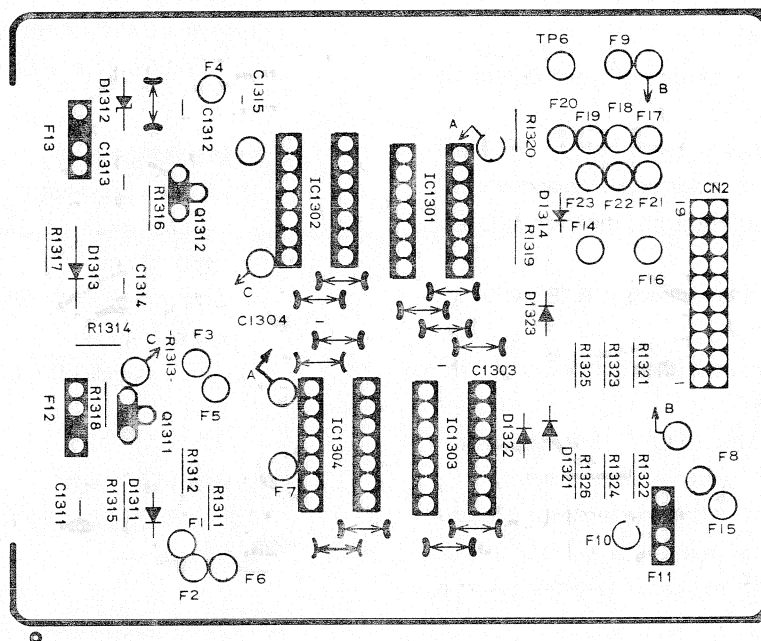
12. V. PCC (Vertical pin cushion) Adjustment

- 1) Display cross-hatch (Green color) with the signal generator.
- 2) Adjust R754 (V. PCC) for vertical pin cushion to become minimum.

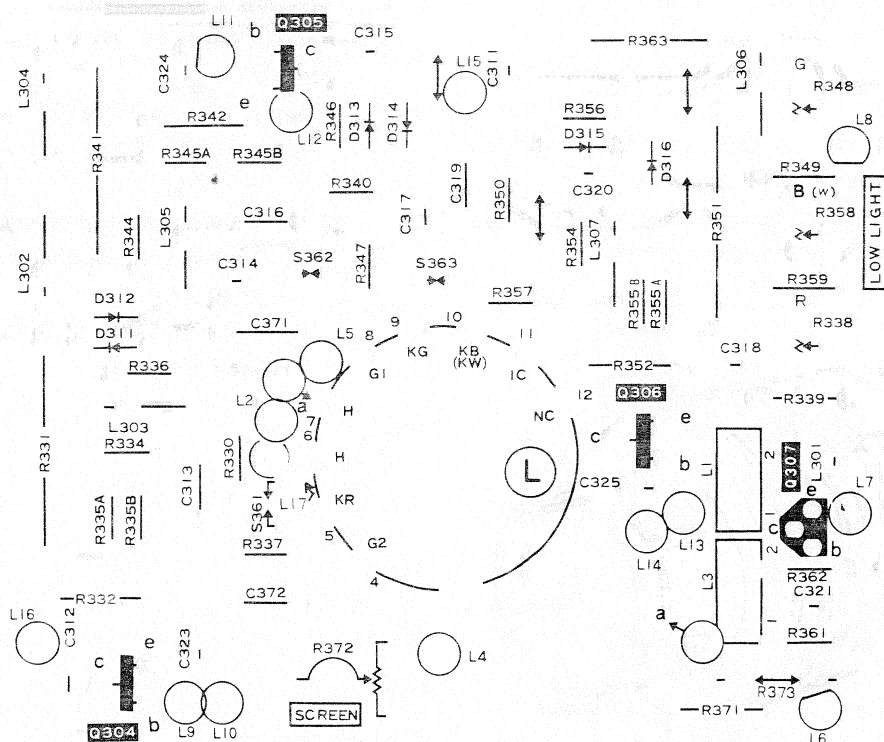
INTERFACE AND CRT-SOCKET CIRCUIT BOARD

SOLDER VIEWS

Interface Board (TNP81121)

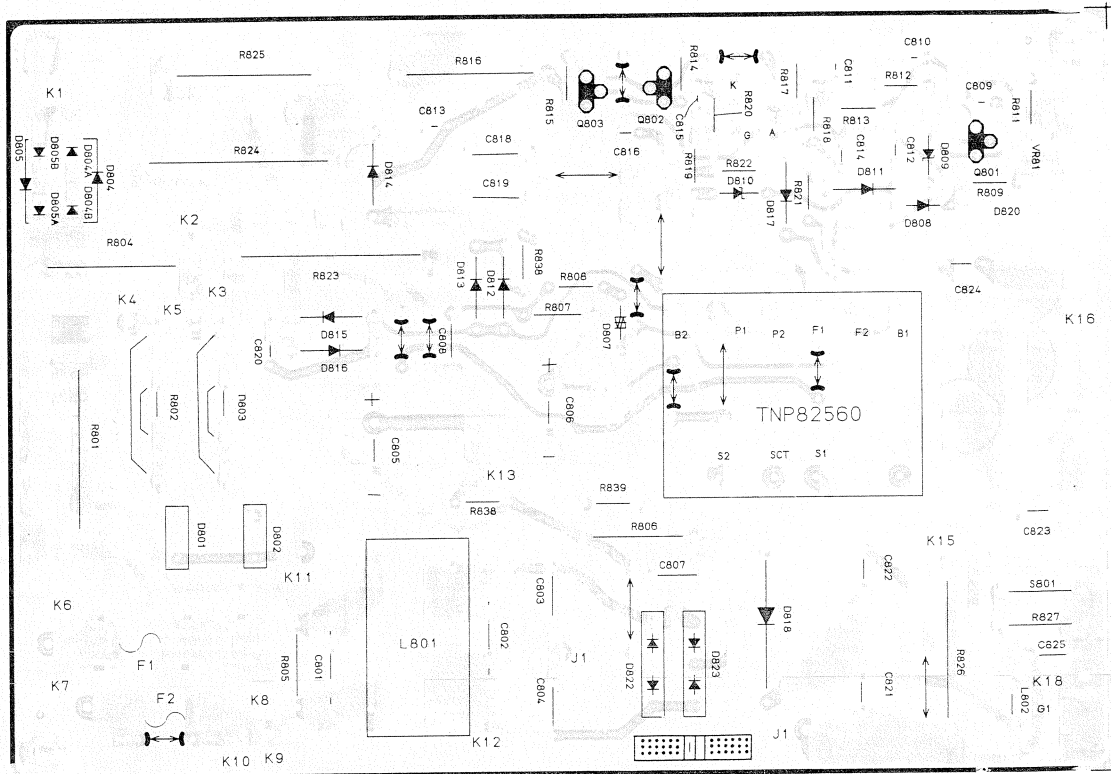


CRT Socket Board (TNP85952)



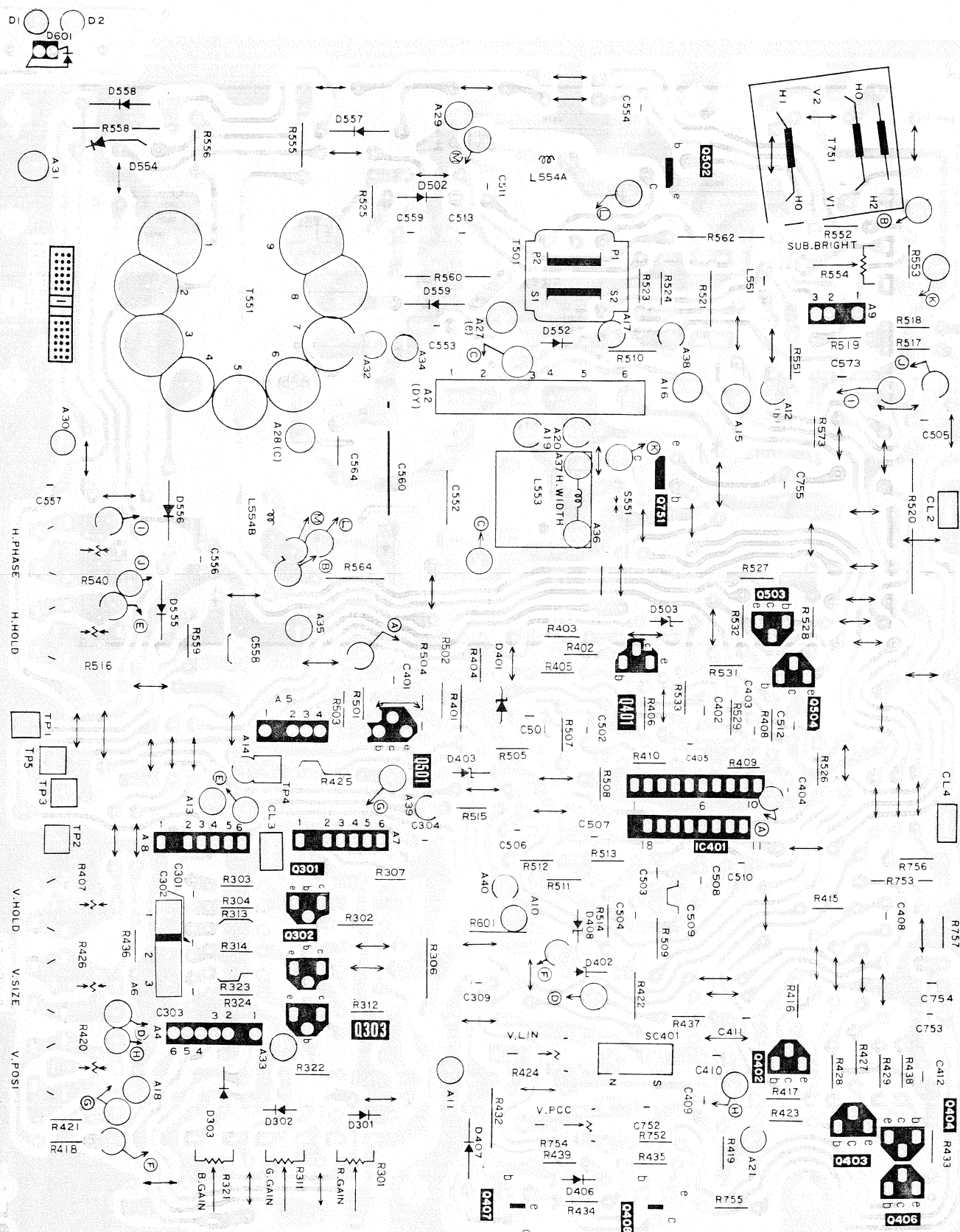
POWER SUPPLY CIRCUIT BOARD-SOLDER VIEW

MONITOR POWER SUPPLY CIRCUIT BOARD-SOLDER VIEW

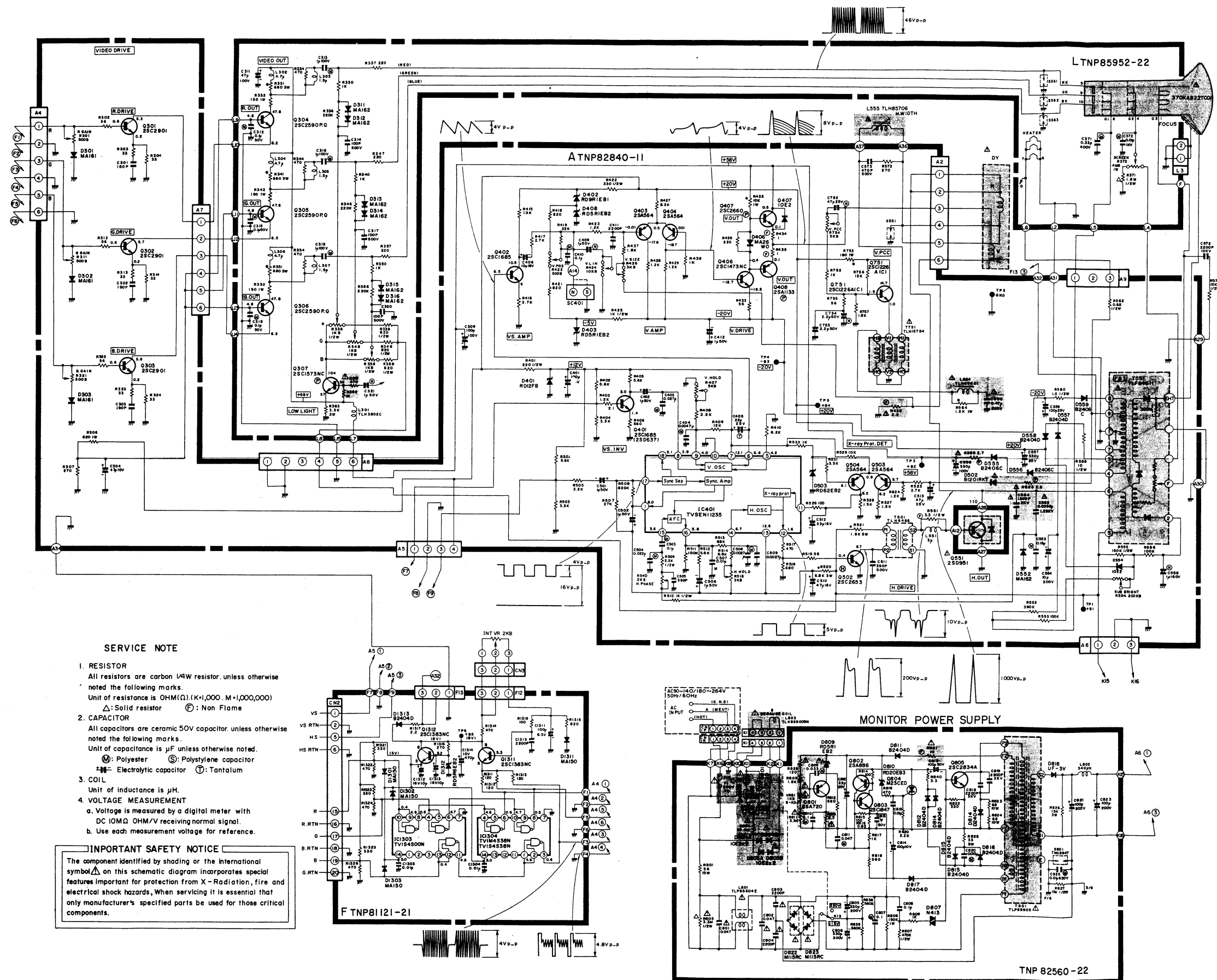


DRIVE CIRCUIT BOARD SOLDER VIEW

Analog Board TNP82840 (Main P.W.A)

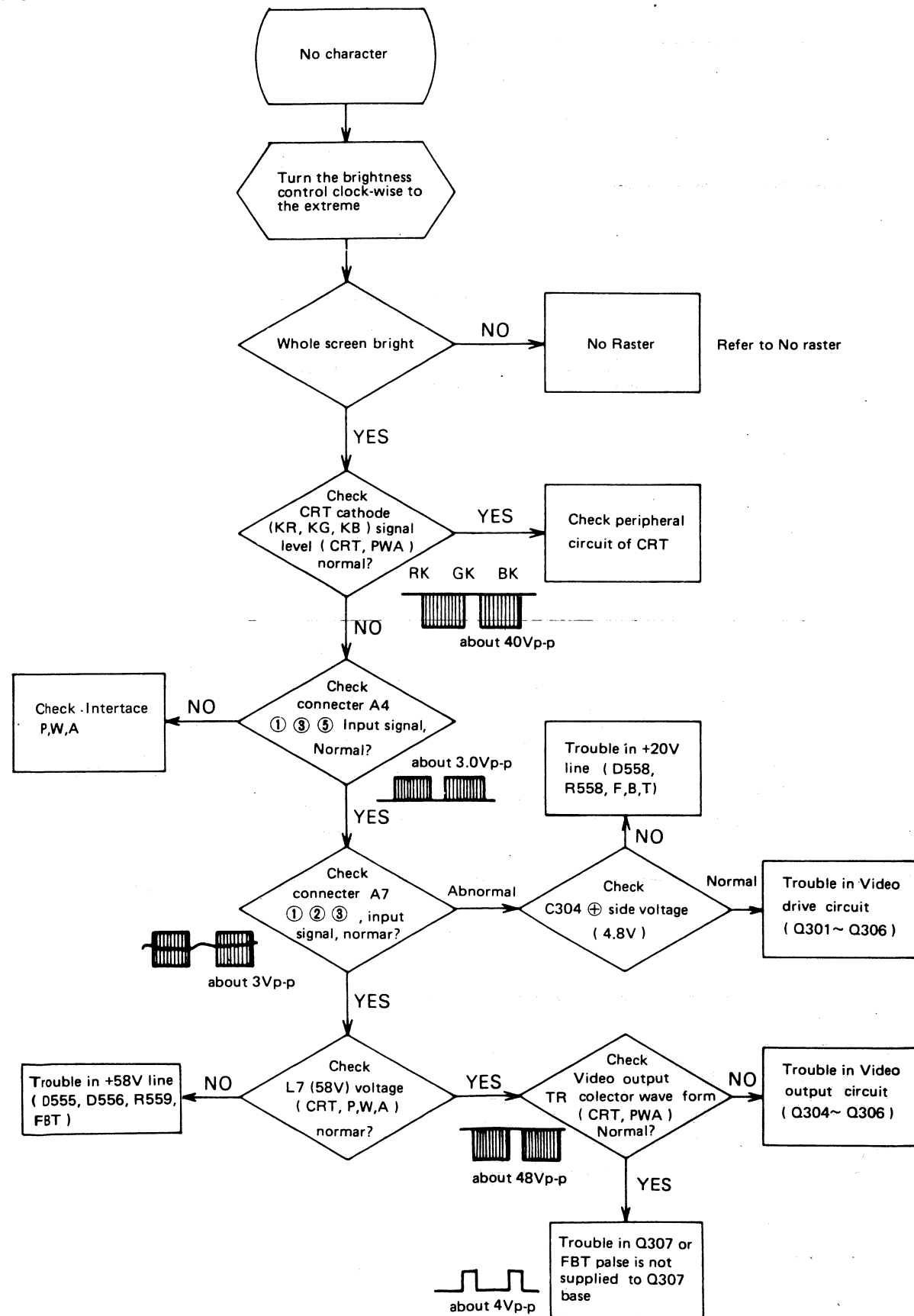


SCHEMATIC DIAGRAM FOR TX-1404FH

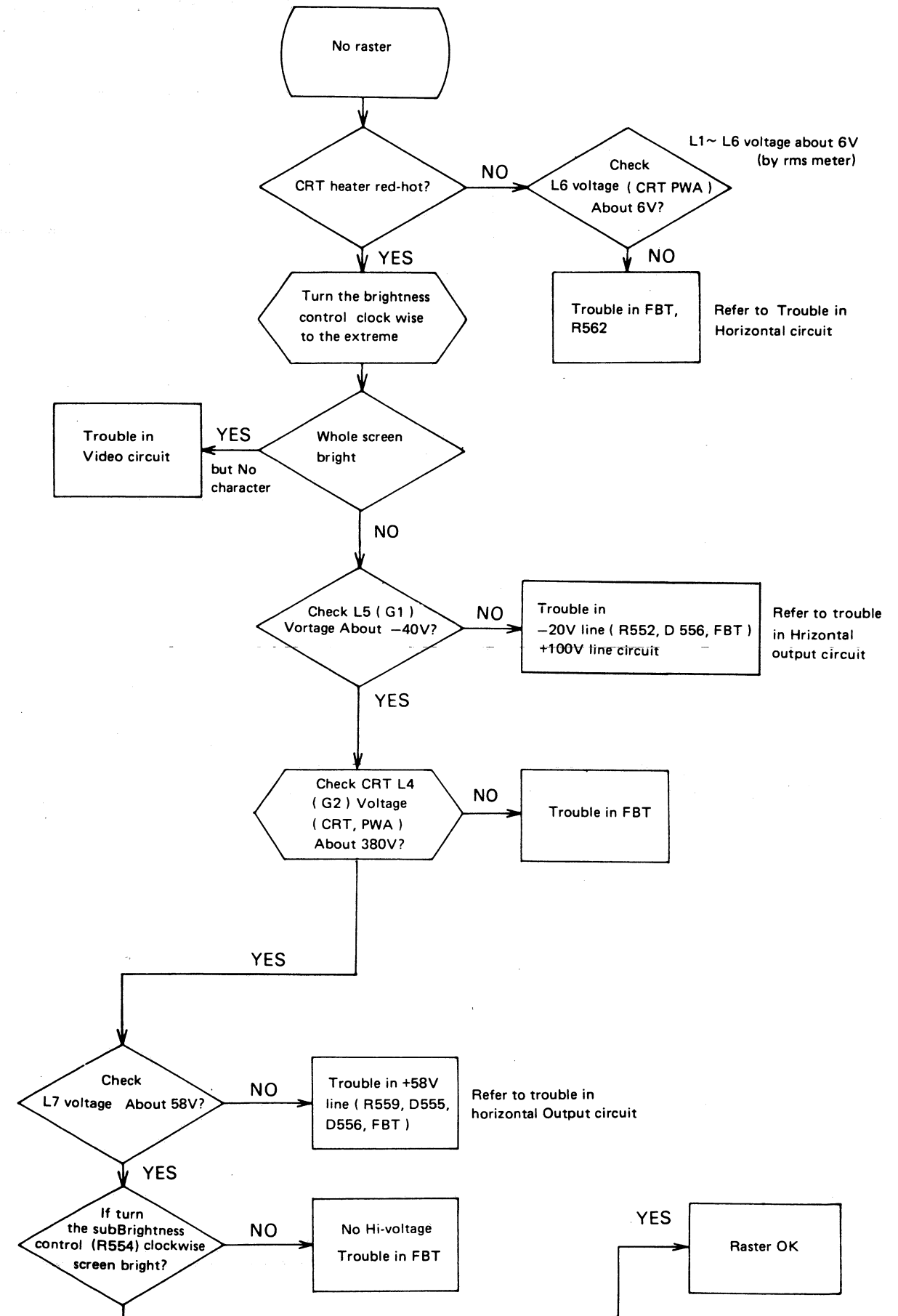


TROUBLE SHOOTING HINTS

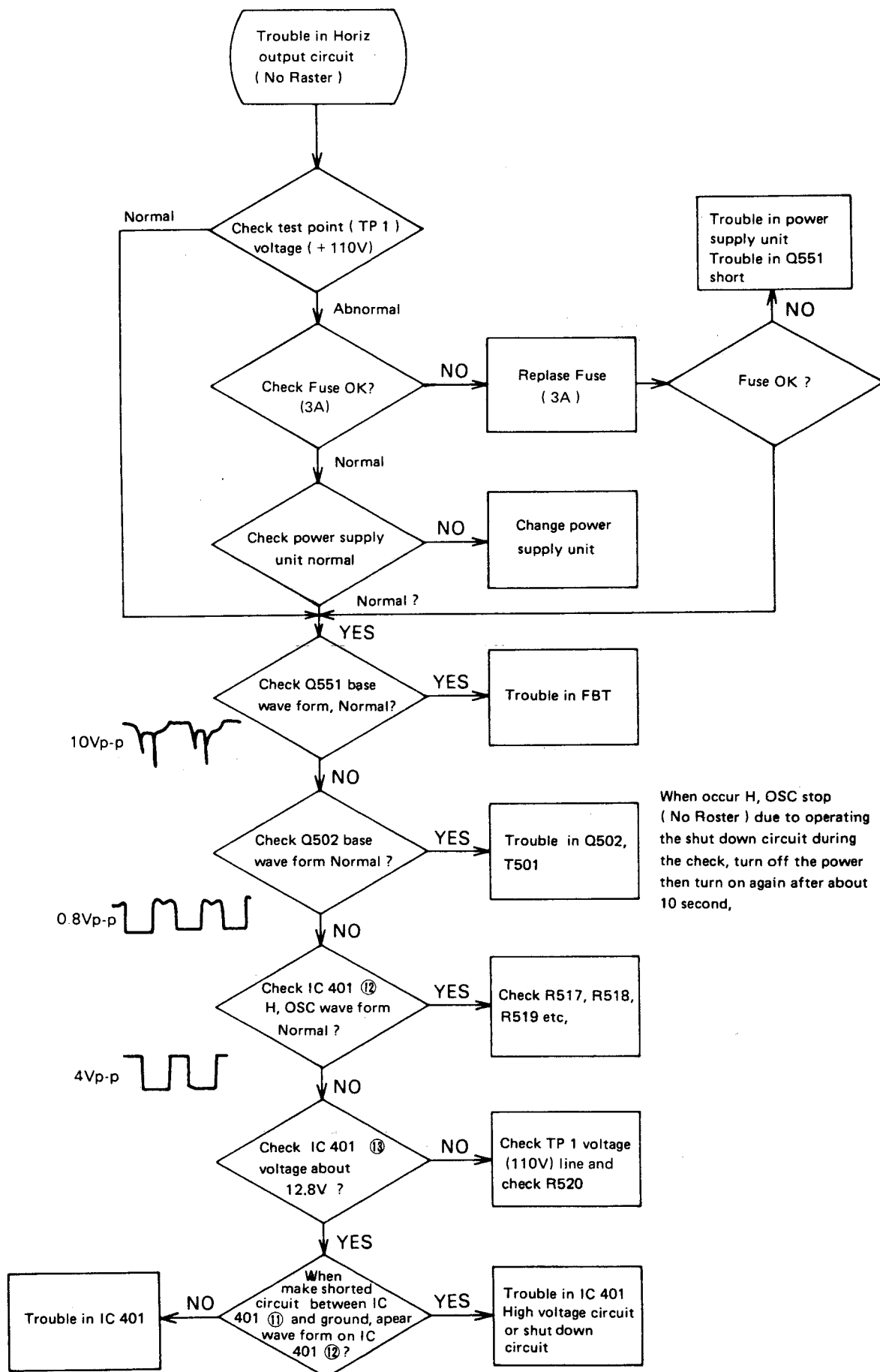
a NO character



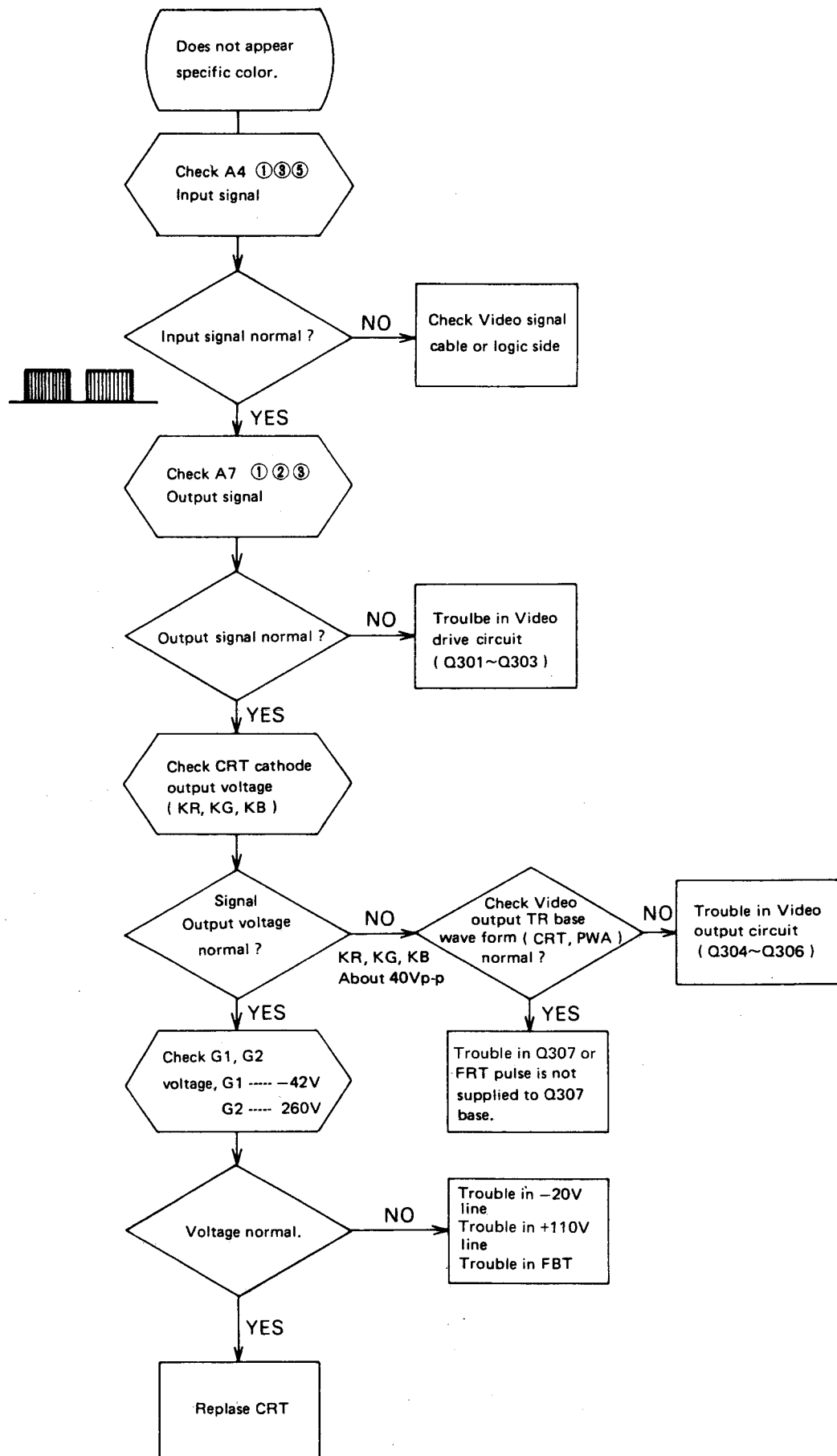
b No Raster



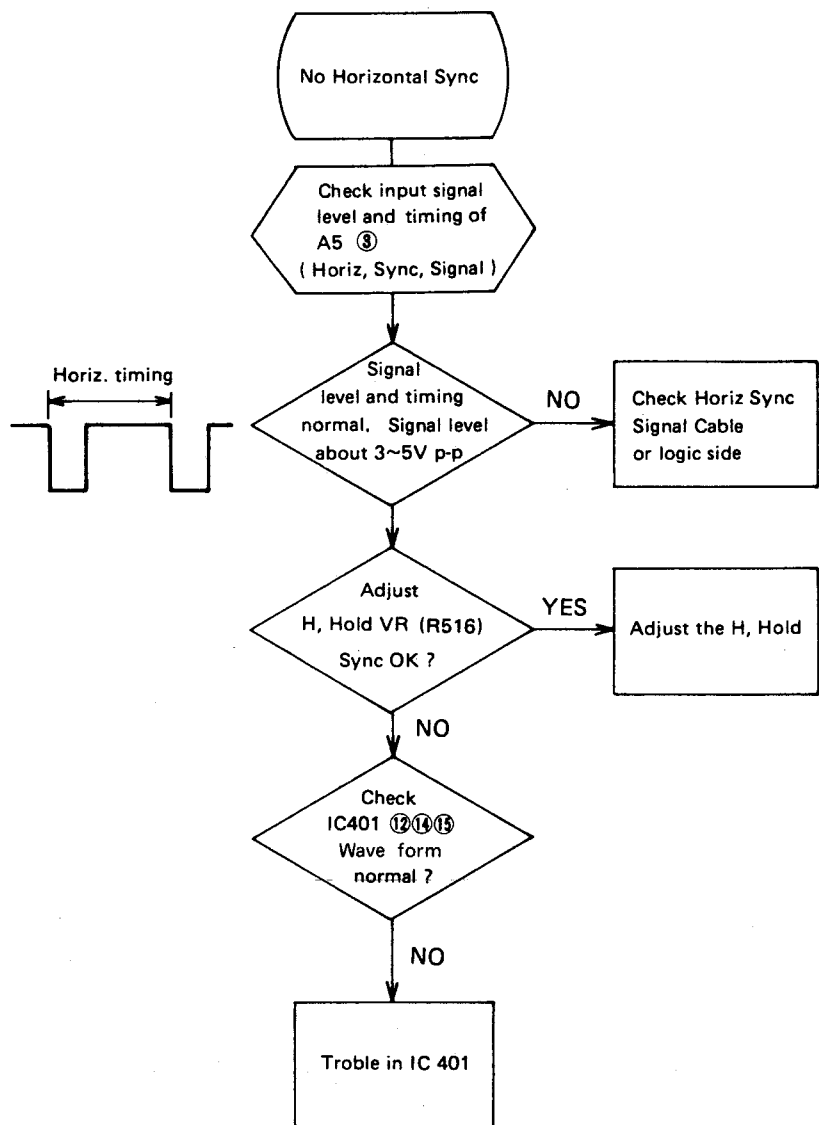
②-1 Trouble in Horiz Out Circuit



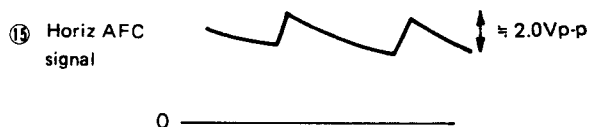
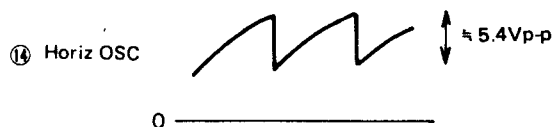
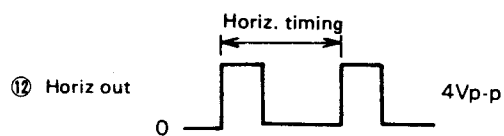
© Does not appear specific color



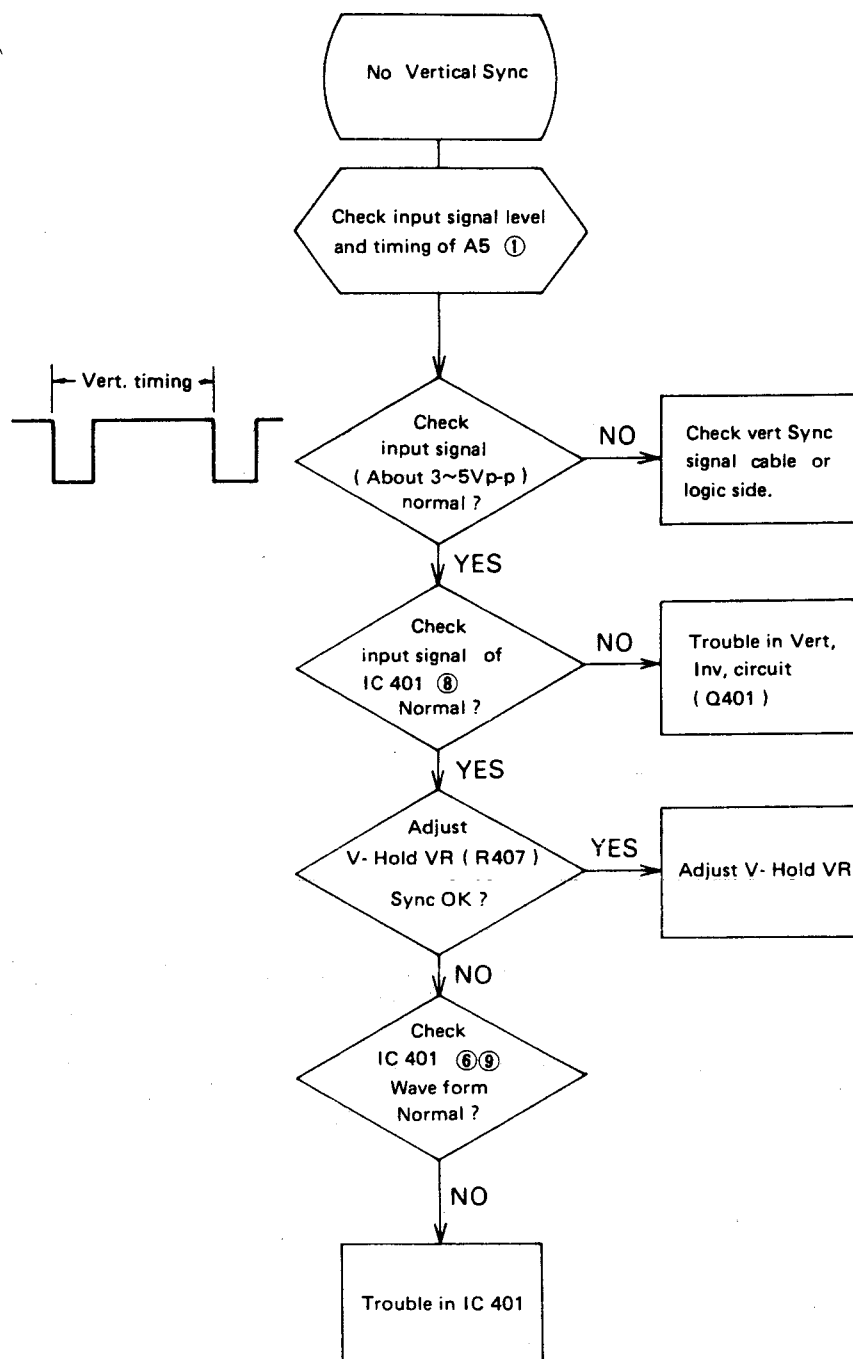
④ NO Horizontal Sync.



IC401

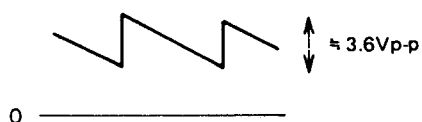


④ NO Vertical Sync.



IC401

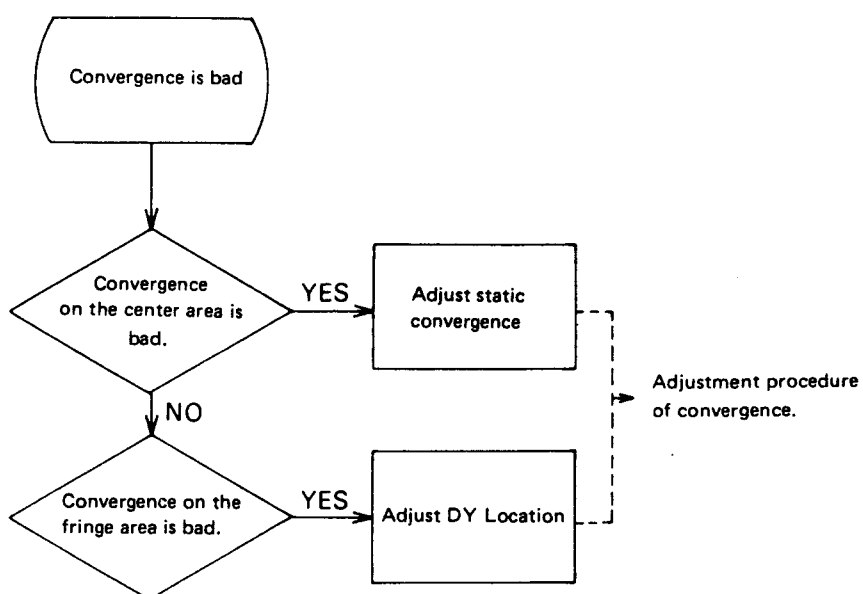
⑥ Vert out



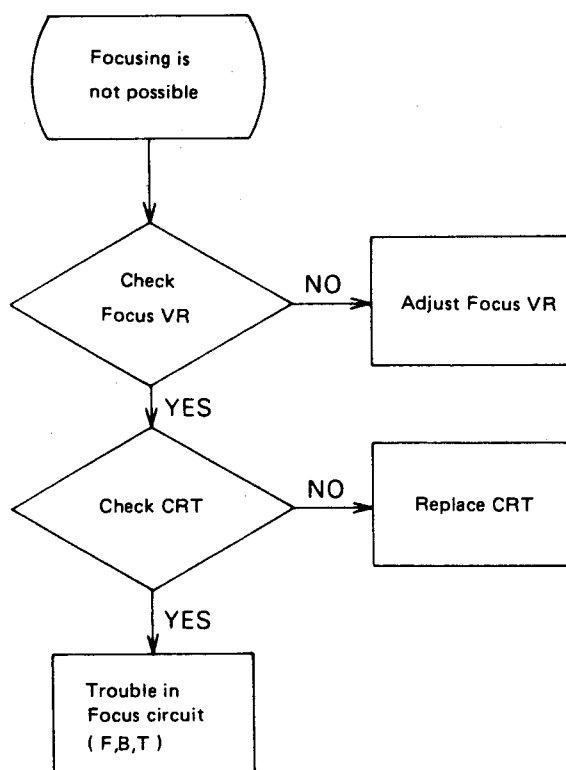
⑨ Vert OSC



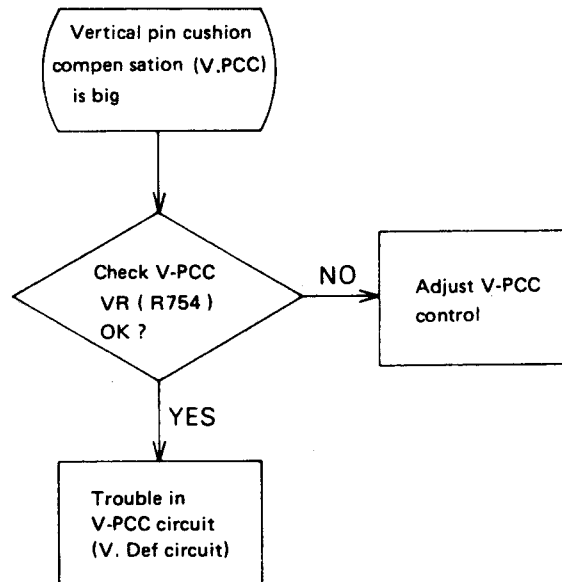
① Convergence is Bad



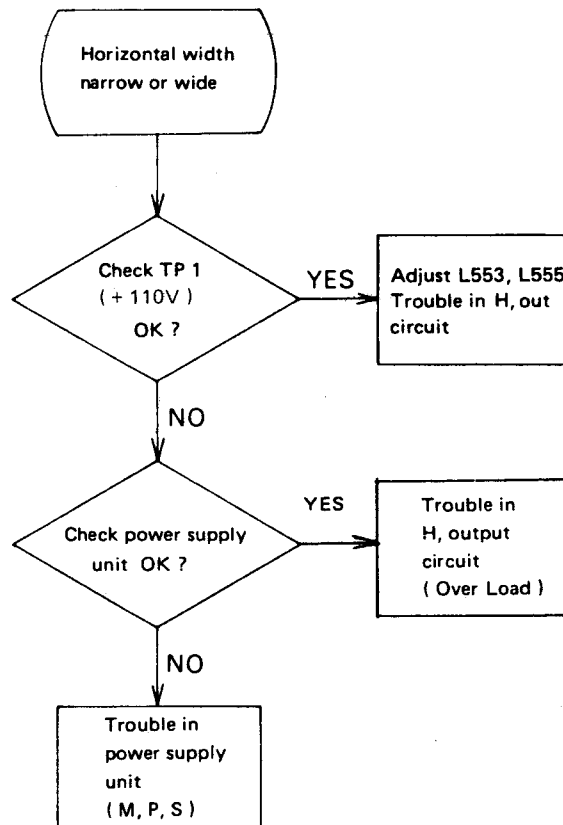
② Focusing Problem



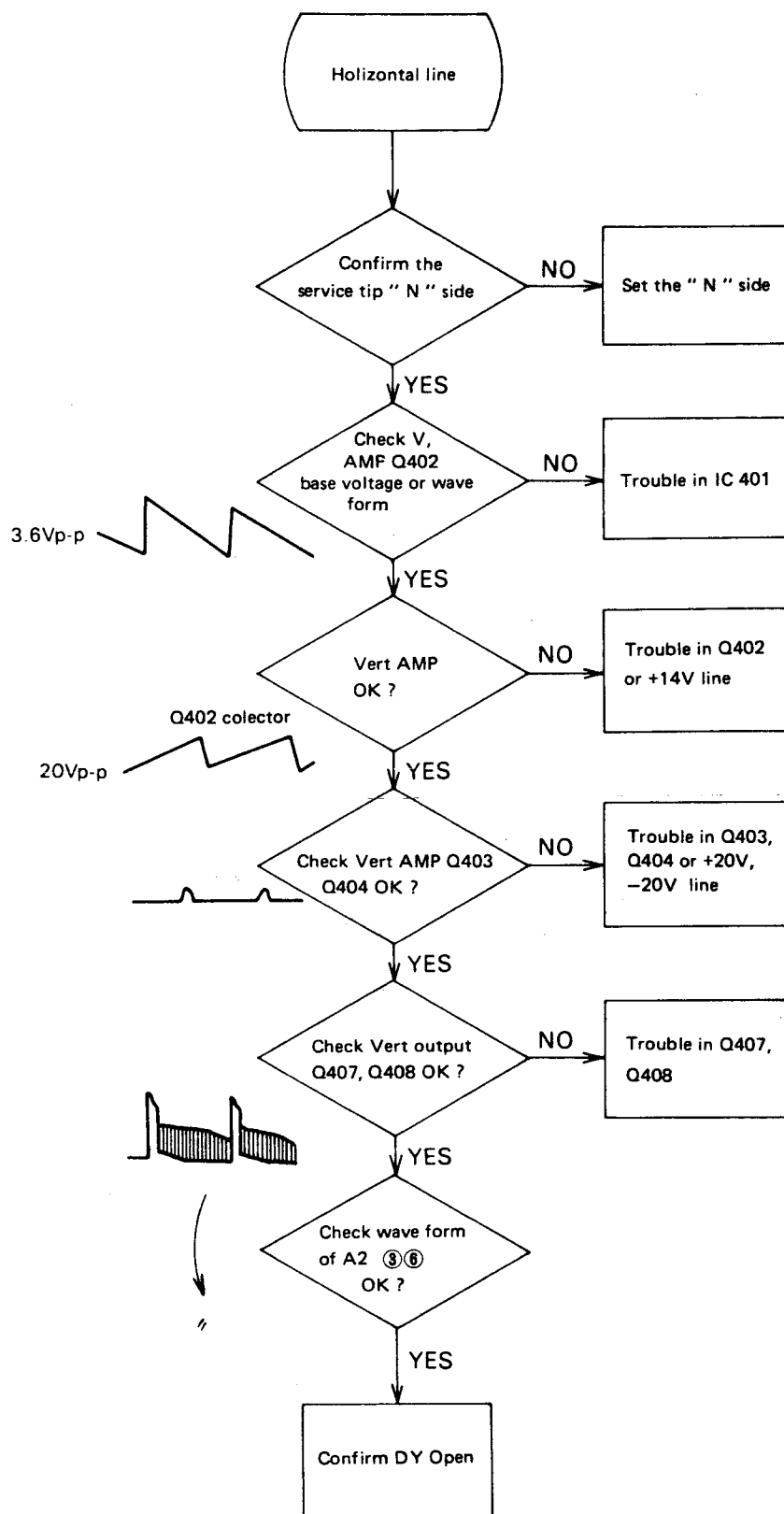
⑧ Vertical Pin Compensation (V.PCC) is big



⑨ Horizontal width is Abnormal



① Horizontal Line



REPLACEMENT PARTS LIST

Important Safety Notice

Components identified by the International symbol Δ have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

Note: Tolerance J: $\pm 5\%$ K: $\pm 10\%$ Z: $\pm 80\%$ C: $\pm 0.25\mu\text{F}$

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CABINET AND MAIN CHASSIS PARTS				XWA5B XWG5H17	CRT Fixing Spring Washer CRT Fixing Washer
	TUW85903 TUW85904 TUX85106 TUX85819 TUX85820	Side Plate (Right) Side Plate (Left) Top Angle Side Bracket (Right) Side Bracket (Left)	TNP82840-11 MAIN P.C. BOARD		
	TUX85821 TUX85109 TUC85907 TUC85908 TUW85304	Bottom Plate Bracket Power Case Power Cover Switch Plate	IC & TRANSISOTRS		
	TNP82840-11 TNP91952-22 TNP81120-11 TNP82560-22 Δ TLK859009N	Main P.C. Board Ass'y CRT P.C. Board Ass'y Sub P.C. Board Ass'y Power P.C. Board Ass'y Degauss Coil	IC401 Q301 Q302 Q303 Q401	TVSEN11235 2SC2901 2SC2901 2SC2901 2SC1685	I.C Transistor Transistor Transistor Transistor
	Δ 370KAB22TC01 TUX85205 TUX85112 TBM80845-1 TJB85302-1	Picture Tube Connector Bracket Power (Block) Bracket Model (Plate) TX1404FH Focus Terminal Road	Q402 Q403 Q404 Q406 Q407	2SC1685 2SA564A 2SA564A 2SC1473QNC 2SC2660LBP	Transistor Transistor Transistor Transistor Transistor
	TKX850301 TKX850401 TKX850501 TMK84518 TMK13511	P.C. Board Holder P.C. Board Holder P.C. Board Holder Bracket CRT Barrier TR Barrier	Q408 Q502 Q503 Q504 Q751	2SA1133LBP 2SC2653HLB 2SA564A 2SA564A 2SC1226AC	Transistor Transistor Transistor Transistor Transistor
	TMK3410 TMK84510 TMK84520 TMM1459 TMM5402-1	Maica Focus Barrier Insulator Sheet Clip Clamper	DIODES		
	TMM15202 TMM81452 TES201 Q551 Δ 2SD951 L555 Δ TLH85706	CRT Socket Cover Insulator Coil Spring Transistor Coil	D301 D302 D303 D401 D402	MA161 MA161 MA161 TVSRD12FB TVSRD9R1EB1	Diode Diode Diode Diode Diode
C572 R572 VR305	ECQW100222K ERD50FJ103 EVV58AF25B23 TXAJTA3P478 TXAJTA6P156	Polyester Carbon Control 3P Connector Ass'y 6P Connector Ass'y	D403 D406 D407 D408 D502 Δ	TVSRD5R1EB2 MA26 TVS10E2 TVSRD5R1EB2 TVSB1201RKT	Diode Diode Diode Diode Diode
	TXAJTA3P479 TXAJTA2P015 TPC851432 TXAPD11404ZE TPD359005	3P Connector Ass'y 2P Connector Ass'y Outer Carbon TX1404FH Filler Complete Filler	D503 D552 D554 D555 D556	TVSRD6R2EB2 MA162 TVS10E2 TVSB2406C TVSB2406C	Diode Diode Diode Diode Diode
	TPE174005 TQA811118 TQF80759 TQE616 XTB4+20BFN	Set Cover Schematic Diagram Warning Label Bag CRT Fixing Screw	D557 D558 D559	TVSB2404D TVSB2404D TVSB2406C	Diode Diode Diode
			COILS & TRANS		
			L551 L554 Δ T501 T551 Δ T751 Δ	TLT030L119C TLH85601 TLH6466 TLF84611 TLH15754	Peaking Coil Coil Coil Flyback Trans Coil
			CAPACITORS		
			C301 C302 C303 C304	ECKD1H151KB2 ECKD1H151KB2 ECKD1H151KB2 ECEA1AS470	Ceramic Ceramic Ceramic Electrolytic
					150pF 150pF 150pF 47 μF
					K K K 10V

MODEL NO. TX-1404FH

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
C309	ECEA2AS101	Electrolytic 100 μ F 100V	R403	ERD25FJ122K	Carbon 1.2K Ω J $\frac{1}{4}$ W
C401	ECEA1CS101	Electrolytic 100 μ F 16V	R404	ERD25FJ332K	Carbon 3.3K Ω J $\frac{1}{4}$ W
C402	ECEA1HS010	Electrolytic 1 μ F 50V	R405	ERD25FJ562K	Carbon 5.6K Ω J $\frac{1}{4}$ W
C403	ECQM1H273JZ	Polyester 0.027 μ F J 50V	R406	ERD25FJ561K	Carbon 560 Ω J $\frac{1}{4}$ W
C404	ECQM1H472JZ	Polyester 4700pF J 50V	R407	EVTVOUA00B53	Control 5K Ω B J $\frac{1}{4}$ W
C405	ECSF25E2R2Y	Tantalume 2.2 μ F 25V	R408	ERD25FJ222K	Carbon 2.2K Ω J $\frac{1}{4}$ W
C408	ECEA1CS100	Electrolytic 10 μ F 16V	R409	ERD25FJ123K	Carbon 12K Ω J $\frac{1}{4}$ W
C409	ECEA1HN010S	Electrolytic 1 μ F 50V	R410	ERD25FJ822K	Carbon 8.2K Ω J $\frac{1}{4}$ W
C410	ECQM1H104JZ	Polyester 0.1 μ F J 50V	R415	ERD25FJ152K	Carbon 1.5K Ω J $\frac{1}{4}$ W
C411	ECQM1H222JZ	Polyester 2200pF J 50V	R416	ERD25FJ272K	Carbon 2.7K Ω J $\frac{1}{4}$ W
C412	ECEA1HS010	Electrolytic 1 μ F 50V	R417	ERD25FJ272K	Carbon 2.7K Ω J $\frac{1}{4}$ W
C501	ECEA1HS010	Electrolytic 1 μ F 50V	R418	ERD25FJ821K	Carbon 820 Ω J $\frac{1}{4}$ W
C502	ECEA1HS010	Electrolytic 1 μ F 50V	R419	ERD25FJ223K	Carbon 22K Ω J $\frac{1}{4}$ W
C503	ECQM1H104JZ	Polyester 0.1 μ F J 50V	R420	EVTVOUA00B52	Control 500 Ω J $\frac{1}{4}$ W
C504	ECQM1H223JZ	Polyester 0.022 μ F J 50V	R421	ERD25FJ821K	Carbon 820 Ω J $\frac{1}{4}$ W
C505	ECKD1H561KB	Ceramic 560pF K 50V	R422	ERD50FJ331	Carbon 330 Ω J $\frac{1}{4}$ W
C506	ECEA1HS010	Electrolytic 1 μ F 50V	R423	ERD25FJ122K	Carbon 1.2K Ω J $\frac{1}{4}$ W
C507	ECQM1H103JZ	Polyester 0.01 μ F J 50V	R424	EVT3MA00B14	Control 10K Ω B
C508	ECQM1H272JZ	Polyester 2700pF J 50V	R425	ERD50FJ102	Carbon 1K Ω J $\frac{1}{4}$ W
C509	ECQF6272KZ	Polypropylene 2700pF K 600V	R426	EVT3MA00B23	Control 2K Ω B
C510	ECEA1CS470	Electrolytic 47 μ F 16V	R427	ERD25FJ822K	Carbon 8.2K Ω J $\frac{1}{4}$ W
C511	ECKD2H391KB9	Electrolytic 390pF K 500V	R428	ERD25FJ122K	Carbon 1.2K Ω J $\frac{1}{4}$ W
C512	ECEA1CS330	Electrolytic 33 μ F 16V	R429	ERD25FJ122K	Carbon 1.2K Ω J $\frac{1}{4}$ W
C513	ECEA1VS470	Electrolytic 47 μ F 35V	R432	ERG1ANJ103	Metal Oxide 10K Ω J 1W
C552	ECWH12H562JS	Polypropylene 5600pF J 12V	R433	ERD25FJ560K	Carbon 56 Ω J $\frac{1}{4}$ W
C553	ECQM1H184JZ	Polyester 180K Ω J 50V	R434	ERD25FJ1R0K	Carbon 1 Ω J $\frac{1}{4}$ W
C554	ECEA2DS100	Electrolytic 10 μ F 200V	R435	ERD25FJ1R0K	Carbon 1 Ω J $\frac{1}{4}$ W
C556	ECEA160N1	Electrolytic 1 μ F 160V	R436	ERD25FJ2R2K	Carbon 2.2 Ω J $\frac{1}{4}$ W
C557	ECEA1ES331	Electrolytic 330 μ F 25V	R437	ERD25FJ122K	Carbon 1.2K Ω J $\frac{1}{4}$ W
C558	ECEA2AS331	Electrolytic 330 μ F 100V	R438	ERD25FJ102K	Carbon 1K Ω J $\frac{1}{4}$ W
C559	ECEA1ES101	Electrolytic 100 μ F 25V	R439	ERD25FJ221K	Carbon 220 Ω J $\frac{1}{4}$ W
C560	ECQF2H474JZ	Polypropylene 0.47 μ F J 500V	R501	ERD25FJ562K	Carbon 5.6K Ω J $\frac{1}{4}$ W
C564	ECKD3H122JB2	Ceramic 1200pF J	R502	ERD25FJ332K	Carbon 3.3K Ω J $\frac{1}{4}$ W
C573	ECKD2H471KB	Ceramic 470pF K 500V	R503	ERD25FJ332K	Carbon 3.3K Ω J $\frac{1}{4}$ W
C752	ECEA1EN470S	Electrolytic 47 μ F 25V	R505	ERD25FJ222K	Carbon 2.2K Ω J $\frac{1}{4}$ W
C753	ECEA1HN2R2S	Electrolytic 2.2 μ F 50V	R507	ERD25FJ273K	Carbon 27K Ω J $\frac{1}{4}$ W
C754	ECEA1HN2R2S	Electrolytic 2.2 μ F 50V	R508	ERD25FJ824K	Carbon 820K Ω J $\frac{1}{4}$ W
RESISTORS			R509	ERD50FJ222	Carbon 2.2K Ω J $\frac{1}{4}$ W
R301	EVT3MA00B52	Control 500 Ω B	R510	ERD50FJ102	Carbon 1K Ω J $\frac{1}{4}$ W
R302	ERD25FJ560K	Carbon 56 Ω J $\frac{1}{4}$ W	R511	ERD25FJ154K	Carbon 150K Ω J $\frac{1}{4}$ W
R303	ERD25FJ330K	Carbon 33 Ω J $\frac{1}{4}$ W	R512	ERD25FJ562K	Carbon 5.6K Ω J $\frac{1}{4}$ W
R304	ERD25FJ330K	Carbon 33 Ω J $\frac{1}{4}$ W	R513	ERD25FJ683K	Carbon 68K Ω J $\frac{1}{4}$ W
R306	ERG1ANJ821	Metal Oxide 820 Ω J $\frac{1}{4}$ W	R514	ERD25FJ682K	Carbon 6.8K Ω J $\frac{1}{4}$ W
R307	ERD25FJ271K	Carbon 270 Ω J $\frac{1}{4}$ W	R516	EVT3MA00B33	Control 3K Ω
R311	EVT3MA00B52	Control 500 Ω B	R517	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W
R312	ERD25FJ560K	Carbon 56 Ω J $\frac{1}{4}$ W	R518	ERD25FJ681K	Carbon 680 Ω J $\frac{1}{4}$ W
R313	ERD25FJ330K	Carbon 33 Ω J $\frac{1}{4}$ W	R519	ERD25FJ560K	Carbon 56 Ω J $\frac{1}{4}$ W
R314	ERD25FJ330K	Carbon 33 Ω J $\frac{1}{4}$ W	R520	ERG3ANJ682	Metal Oxide 6.8K Ω J 3W
R321	EVT3MA00B52	Control 500 Ω B	R521	ERG5ZJ182	Metal Oxide 1.8K Ω J 5W
R322	ERD25FJ560K	Carbon 56 Ω J $\frac{1}{4}$ W	R523	ERD25FJ272K	Carbon 2.7K Ω J $\frac{1}{4}$ W
R323	ERD25FJ330K	Carbon 33 Ω J $\frac{1}{4}$ W	R524	ERD25FJ122K	Carbon 1.2K Ω J $\frac{1}{4}$ W
R324	ERD25FJ330K	Carbon 33 Ω J $\frac{1}{4}$ W	R525	ERD25FJ2R2K	Carbon 2.2 Ω J $\frac{1}{4}$ W
R401	ERD50FJ221	Carbon 220 Ω J $\frac{1}{4}$ W	R526	ERD25FJ101K	Carbon 100 Ω J $\frac{1}{4}$ W
R402	ERD25FJ562K	Carbon 5.6K Ω J $\frac{1}{4}$ W	R527	ERD25FJ152K	Carbon 1.5K Ω J $\frac{1}{4}$ W
			R528	ERD25FJ152K	Carbon 1.5K Ω J $\frac{1}{4}$ W

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Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R529	ERD25FJ103K	Carbon 10K Ω J $\frac{1}{4}$ W	D809	TVSRDSR1EB2	Diode
R531	ERD25FJ332K	Carbon 3.3K Ω J $\frac{1}{4}$ W	D810	TVSRD20EB3	Diode
R533	ERD25FJ102KK	Carbon 1K Ω J $\frac{1}{4}$ W	D811	TVSB2404D	Diode
R540	EVT3MA00B23	Control 2K Ω B	D812	TVSB2404D	Diode
R551	ERD50FJ3R3	Carbon 3.3 Ω J $\frac{1}{4}$ W	D813	TVSB2404D	Diode
R552	ERD25FJ394K	Carbon 390K Ω J $\frac{1}{4}$ W	D814	TVSB2404D	Diode
R553	ERD25FJ104K	Carbon 100K Ω J $\frac{1}{4}$ W	D815	TVSB2404D	Diode
R554	EVT3MA00B25	Control 2M Ω B	D816	TVSB2404D	Diode
R555	ERD50FJ154	Carbon 150K Ω J $\frac{1}{4}$ W	D817	TVSB2404D	Diode
R556	ERD25FJ104K	Carbon 100K Ω J $\frac{1}{4}$ W	D818	TVSUF-3VT	Diode
R558	ERQ12HJ1R0	Fuseble 1 Ω J 12W	D822	TVSMI-15R	Diode
R559	ERD25FJ2R7K	Carbon 2.7 Ω J $\frac{1}{4}$ W	D823	TVSMI-15S	Diode
R560	ERQ12HJ1R0	Fuseble 1 Ω J 12W	L801	TLP85604E	Trans
R562	ERQ12HJR33	Fuseble 0.33 Ω K 12W	L802	TLT341-119C	Peaking Coil
R564	ERG1ANJ122	Metal Oxide 1.2K Ω J 1W	T801	TLP85905-1	Trans
R573	ERD25FJ271K	Carbon 270 Ω J $\frac{1}{4}$ W	CAPACITORS		
R572	ERD25FJ102K	Carbon 1K Ω J $\frac{1}{4}$ W	C801	ECQU1A473ME	Polypropylene 0.047 μ F
R753	ERG1ANJ181	Metal Oxide 180 Ω J 1W	C802	ECQU1A473ME	Polypropylene 0.047 μ F
R754	EVT3MA00B53	Control 5K Ω B	C803	ECKDEL222ZE	Ceramic 2200pF
R755	ERD25FJ560K	Carbon 56 Ω J $\frac{1}{4}$ W	C804	ECKDEL222ZE	Ceramic 2200pF
R756	ERD25FJ123K	Carbon 12K Ω J $\frac{1}{4}$ W	C805	ECES2DV331S	Electrolytic
R757	ERD25FJ182K	Carbon 1.8K Ω J $\frac{1}{4}$ W	C806	ECES2DV331S	Electrolytic 330 μ F
OTHER PARTS			C807	ECQE4104KZ	Polyester 0.1 μ F K 400V
S551	TGPS152GL	Spark Gap	C808	ECQE4104KZ	Polyester 0.1 μ F J 400V
A4	TJS868280	6P Housing Socket	C809	ECQM1H333JZ	Polyester 0.033 μ F 50V
A5	TJS868260	4P Housing Socket	C810	ECQM1H104JZ	Polyester 0.1 μ F
A7	TJS868280	6P Housing Socket	C811	ECQM1H473JZ	Polyester 0.047 μ F
A8	TJS868280	6P Housing Socket	C812	ECEA25Z22E	Electrolytic 22 μ F 25V
A9	TJS868250	3P Housing Socket	C813	ECQV05105JZ	Ceramic
	TXAJTA1P076A	1P Connector Ass'y	C814	ECEA1AS101	Electrolytic 100 μ F 10V
	TXAJTC3P504	3P Connector Ass'y	C815	ECQM1H103JZ	Polyester 0.01 μ F J 50V
	TMM85501	Rubber	C816	ECEA1HS101	Electrolytic 100 μ F 50V
	TUX85810-1	Flyback Bracket	C818	ECKD3F222KBN	Ceramic 2200pF K
	TES6162	Tr. Spring	C819	ECKD3F222KBN	Ceramic 2200pF K
	TMK81423	Mica Sheft	C820	ECQM1H154JZ	Electrolytic 100 μ F 200V
TNP82560-22 POWER P.C. BOARD			C821	ECEA2DS101	Electrolytic 100 μ F 200V
TRANSISTORS			C823	ECEA2DS101	Electrolytic 100 μ F 200V
Q801	2SA720	Transistor (R.S)	C825	ECQE6103KZ	Polyester 0.01 μ F K 600V
Q802	2SA886QBF	Diode (R)	RESISTORS		
Q803	2SC1847QBF	Diode (R)	R801	ERF15ZXK5R6	Non Flame 2.7 Ω K 5W
Q804	M23CED	Transistor (IFD)	R804	ERF5AJ680	Non Flame 68 Ω J 5W
Q805	2SC2834A	Transistor	R805	ERC12ZGK335	Carbon 100K Ω K $\frac{1}{4}$ W
DIODES			R806	ERC1GK154	Solid 150K Ω J 1W
D801	ERPF6B0M100F	Posistor	R807	ERD50FJ474	Carbon 470K Ω J $\frac{1}{4}$ W
D802	ERPF5B0M120G	Posistor	R808	ERD25FJ102K	Carbon 1K Ω J $\frac{1}{4}$ W
D803	ERPF5B0M120G	Posistor	R809	ERD25FJ182K	Carbon 1.8K Ω J $\frac{1}{4}$ W
D804A	TVS10E2	Diode	R811	ERD25FJ332K	Carbon 680 Ω J $\frac{1}{4}$ W
D804B	TVS10E2	Diode	R812	ERD25FJ681K	Carbon 680 Ω J $\frac{1}{4}$ W
D805A	TVS10E2	Diode	R813	ERD25FJ2R7K	Carbon 0.82 Ω J $\frac{1}{4}$ W
D805B	TVS10E2	Diode	R814	ERD25FJ101K	Carbon 100 Ω J $\frac{1}{4}$ W
D807	TVSN413M	Diode	R815	ERD25FJ101K	Carbon 100 Ω J $\frac{1}{4}$ W
D808	ERD25FJ121K	Carbon 120 Ω J $\frac{1}{4}$ W	R816	ERF3AKR82	Non Flame 0.82 Ω K 3W
			R817	ERD25FJ102K	Carbon 1K Ω J $\frac{1}{4}$ W
			R818	ERD25FJ561K	Carbon 560 Ω J $\frac{1}{4}$ W

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Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
R819	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W	C321	ECEA1HN010S	Electrolytic 1 μ F 50V
R820	ERD25FJ222K	Carbon 2.2K Ω J $\frac{1}{4}$ W	C371	ECQE4334KZ	Polyester 0.33 μ F K 400V
R821 Δ	ERD25FJ100K	Carbon 10 Ω J $\frac{1}{4}$ W	C372	ECQE10103KZ	Polyester 0.01 μ F K 1KV
R822	ERD25FJ331K	Carbon 330 Ω J $\frac{1}{4}$ W	RESISTORS		
R823	ERF10ZJ680	Non Flame 68 Ω J 10W	R330	ERD25FJ102K	Carbon 1K Ω K $\frac{1}{4}$ W
R824	ERF10ZJ680	Non Flame 68 Ω J 10W	R331	ERG3ANJ681	Metal Oxide 680 Ω J 3W
R825	ERF5AJ330	Non Flame 33 Ω J 5W	R332	ERG1ANJ151	Metal 150 Ω J 1W
R826	ERG3ANJ153	Metal 15K Ω J 3W	R334	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W
R827	ERC12GJ153	Solid 15K Ω J $\frac{1}{2}$ W	R336	ERD25FJ224K	Carbon 220K Ω J $\frac{1}{4}$ W
R838	ERD25FJ564K	Carbon 560K Ω J $\frac{1}{4}$ W	R337	ERD25FJ221K	Carbon 220 Ω J $\frac{1}{4}$ W
R839	ERD25FJ564K	Carbon 568K Ω J $\frac{1}{4}$ W	R338	EVMH0GA00B13	Control 1K Ω
CONTROL			R339	ERD50FJ821	Carbon 820 Ω J $\frac{1}{2}$ W
VR81 Δ	EVTV0UA00B13	Control	R340	ERD25FJ102K	Carbon 1K Ω J $\frac{1}{4}$ W
OTHER PARTS			R341	ERG3ANJ681	Metal Oxide 680 Ω J 3W
F1,3 G1	TES6162	Spring	R372	ERG1ANJ151	Metal 150 Ω J 1W
	TMK81423	Maica Seeft	R344	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W
	TJC305-1	Fuse Holder	R346	ERD25FJ224K	Carbon 220K Ω J $\frac{1}{4}$ W
	TJC6137	Gnd Terminal	R347	ERD25FJ221K	Carbon 220 Ω J $\frac{1}{4}$ W
	TXAJTA4P246A	4P Connector Ass'y	R348	EVMH0GA00B13	Control 1K Ω
S801 Δ	TXAJTV3P527	3P Connector Ass'y	R349	ERD50FJ821	Carbon 820 Ω J $\frac{1}{2}$ W
	TXAJTX4P247	4P Connector Ass'y	R350	ERD25FJ102K	Carbon 1K Ω J $\frac{1}{4}$ W
	XBA2F30NU100	Fuse 3A	R351	ERG3ANJ681	Metal Oxide 680 Ω J 3W
	TNQ8947	Arester	R352	ERG1ANJ151	Metal 150 Ω J 1W
	ESD391	Switch	R354	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W
TNP91952-22 CRT P.C. BOARD			R356	ERD25FJ224K	Carbon 220K Ω J $\frac{1}{4}$ W
TRANSISTORS & DIODE			R357	ERD25FJ221K	Carbon 220 Ω J $\frac{1}{4}$ W
Q304	2SC2590Q	Transistor (P, Q)	R358	EVMH0GA00B13	Control 1K Ω
Q305	2SC2590Q	Transistor (P, Q)	R359	ERD50FJ821	Carbon 820 Ω J $\frac{1}{2}$ W
Q306	2SC2590Q	Transistor (P, Q)	R361 Δ	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W
Q307	2SC1573QNC	Transistor	R362	ERD25FJ102K	Carbon 1K Ω J $\frac{1}{4}$ W
D311~316	MA162	Diode	R363	ERG2ANJ332	Metal Oxide 3.3K Ω J 2W
COILS			R342	ERG1ANJ151	Metal Oxide 150 Ω J 1W
L301	TLH3802C	Coil	R371	ERC12GJ185	Solid 1.8M Ω J 2W
L302	TLU4R7K106C	Peaking Coil	R372	EVME6U10KB46	Control
L303	TLU1R5K106C	Peaking Coil 1.5 μ H K	OTHER PARTS		
L304	TLU4R7K106C	Peaking Coil 4.7 μ H K	S361	TGPS152GL	Spark Gap
L305	TLU1R5K106C	Peaking Coil 1.5 μ H K	S362	TGPS152GL	Spark Gap
L306	TLU4R7K106C	Peaking Coil 4.7 μ H K	S363	TGPS152GL	Spark Gap
L307	TLU1R5K106C	Peaking Coil 1.5 μ H K		TJS35030	CRT Socket
CAPACITORS				TXAJTCBP453	3P Connector Ass'y
C311	ECEA2AS470	Electrolytic 47 μ F 100V		TXAJTC6P187R	6P Connector Ass'y
C312	ECQM1H104JZ	Polyester 0.1 μ F J 50V		TSC8906-0	6P Connector Ass'y
C313	ECQE1105KZ	Polyester 1 μ F K 100V	TNP81120-11 SUB P.C. BOARD		
C314	ECKD2H101KB2	Ceramic 100pF K 500V	I.C & TRANSISTOR & DIODE		
C315	ECQM1H104JZ	Polyester 0.1 μ F J 50V	IC1301	MB74S00	I.C
C316	ECQE1105KZ	Polyester 1 μ F K 100V	IC1302	MB74S38	I.C
C317	ECKD2H101KB2	Ceramic 100pF K 500V	Q1311	2SC1383QNC	Transistor
C318	ECQM1H104JZ	Polyester 0.1 μ F J 50V	Q1312	2SC1383QNC	Transistor
C319	ECQE1105KZ	Polyester 1 μ F K 100V	D1311	MA150	Diode
C320	ECKD2H101KB2	Ceramic 100pF K 500V	D1312	TVSRD5R6EB2	Diode
			D1313	TVSB2404D	Diode
			D1301	MA150	Diode
			D1302	MA150	Diode

MODEL NO. TX-1404FH

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
D1303	MA150	Diode			
CAPACITORS					
C1301	ECKD1H103PF2	Ceramic 0.01 μ F P 50V			
C1302	ECKD1H103PF2	Ceramic 0.01 μ F P 50V			
C1311	ECEA0JS101	Electrolytic 100 μ F 6.3V			
C1312	ECEA1CS100	Electrolytic 10 μ F 16V			
C1313	ECEA1CS100	Electrolytic 10 μ F 16V			
C1314	ECEA1AS471	Electrolytic 470 μ F 10V			
RESISTORS					
R1301	ERD25FJ331K	Carbon 330 Ω J $\frac{1}{4}$ W			
R1302	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W			
R1303	ERD25FJ331K	Carbon 330 Ω J $\frac{1}{4}$ W			
R1304	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W			
R1305	ERD25FJ331K	Carbon 330 Ω J $\frac{1}{4}$ W			
R1306	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W			
R1311	ERD25FJ121K	Carbon 120 Ω J $\frac{1}{4}$ W			
R1312	ERD25FJ121K	Carbon 120 Ω J $\frac{1}{4}$ W			
R1313	ERD25FJ121K	Carbon 120 Ω J $\frac{1}{4}$ W			
R1314	ERD25FJ471K	Carbon 470 Ω J $\frac{1}{4}$ W			
R1315	ERD25FJ821K	Carbon 820 Ω J $\frac{1}{4}$ W			
R1316	ERD25FJ271K	Carbon 270 Ω J $\frac{1}{4}$ W			
R1317	ERD25FJ2R2K	Carbon 2.2 Ω J $\frac{1}{4}$ W			
R1318	ERD25FJ101K	Carbon 100 Ω J $\frac{1}{4}$ W			
OTHER PARTS					
CN2	TJS828370	20P Socket			
F12	TJS868250	Socket			
F13	TJS868250	Socket			
	TXAJTC4P234	4P Connector Ass'y			
	TXAJTC6P174	6P Connector Ass'y			